

**Experiment Number:** 10188 - 02  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

Final 4

**NTP Study Number:** C10188  
**Lock Date:** 07/15/2015  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 696

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                           |                             |                          |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla        | Blood Vessel              | * Bone                      | * Brain                  |
| * Esophagus              | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Islets, Pancreatic     | * Liver                   | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland          | * Parathyroid Gland       | * Pituitary Gland           | * Preputial Gland        |
| * Salivary Glands        | * Seminal Vesicle         | * Skin                      | * Stomach, Glandular     |
| * Thyroid Gland          | * Trachea                 | * Urinary Bladder           |                          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                            |                                  |                       |                        |
|----------------------------|----------------------------------|-----------------------|------------------------|
| * Adrenal Cortex           |                                  | Necrosis              | Mild                   |
| * Bone Marrow              |                                  | Hypercellularity      | Mild                   |
| * Epididymis               | Bilateral, Duct                  | Exfoliated Germ Cell  | Mild                   |
| * Heart                    |                                  | Cardiomyopathy        | Minimal                |
| * Intestine Small, Jejunum |                                  | Adenocarcinoma        |                        |
|                            | [ Adenocarcinoma TGLs = 1 - 18 ] |                       |                        |
| * Kidney                   |                                  | Infarct               | Minimal                |
|                            |                                  | Nephropathy           | Chronicprogr, Moderate |
| * Lung                     |                                  | Infiltration Cellular | Histiocyte, Minimal    |
|                            |                                  | Inflammation          | Acute, Moderate        |
| * Nose                     |                                  | Inflammation          | Suppurative, Marked    |
| * Pancreas                 | Acinus                           | Hyperplasia           | Marked                 |
| * Prostate                 | Epithelium, Ventral              | Hyperplasia           | Moderate               |
| * Spleen                   | White Pulp                       | Atrophy               | Mild                   |
| * Stomach, Forestomach     | Epithelium                       | Hyperplasia           | Mild                   |
|                            |                                  | Inflammation          | Chronic Active, Mild   |
| * Testis                   | Bilateral                        | Polyarteritis Nodosa  | Minimal                |
| * Thymus                   |                                  | Atrophy               | Marked                 |

PRIMARY CAUSE OF DEATH - Intestine Small, Jejunum Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                          |                          |                             |
|--------------------------|--------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel             | * Bone                   | * Bone Marrow               |
| * Brain                  | * Epididymis             | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Preputial Gland        | * Prostate               | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                   | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Trachea                | * Urinary Bladder        |                          |                             |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                            |                                  |                               |                         |
|----------------------------|----------------------------------|-------------------------------|-------------------------|
| * Adrenal Medulla          |                                  | Pheochromocytoma Benign       |                         |
| * Heart                    |                                  | Cardiomyopathy                | Minimal                 |
|                            | Valve                            | Degeneration                  | Minimal                 |
| * Intestine Large, Rectum  |                                  | Polyarteritis Nodosa          | Mild                    |
| * Intestine Small, Jejunum |                                  | Adenocarcinoma                |                         |
|                            | [ Adenocarcinoma TGLs = 6 - 21 ] |                               |                         |
| * Kidney                   | Renal Tubule                     | Cyst                          |                         |
|                            |                                  | Nephropathy                   | Chronicprogr, Marked    |
| * Liver                    |                                  | Clear Cell Focus              |                         |
| * Lung                     |                                  | Infiltration Cellular         | Histiocyte, Minimal     |
|                            |                                  | Inflammation                  | Chronic Active, Minimal |
| * Nose                     | Olfactory Epi                    | Accumulation, Hyaline Droplet | Mild                    |
| * Pancreas                 | Acinus                           | Adenoma                       | Multiple                |
|                            | Acinus                           | Hyperplasia                   | Marked                  |
|                            |                                  | Polyarteritis Nodosa          | Mild                    |
|                            | [ Adenoma TGLs = 1,2,3,4 - 19 ]  |                               |                         |
|                            | [ Hyperplasia TGLs = 5 - 20 ]    |                               |                         |

\* PROTOCOL REQUIRED TISSUE

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Lab: BAT

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**ANIMAL ID:** 2

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300532

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	Bilateral, C Cell	Adenoma	

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[ Infiltration Cellular TGLs = 2 - 20 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
		Inflammation	Acute, Minimal
* Skin	Subcut Tiss	Fibroma	
	[ Fibroma TGLs = 1 - 19 ]		
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Testis	Bilateral	Edema	Minimal
	Interstit Cell	Hyperplasia	Focal, Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

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Species/Strain: RATS/HSD

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Lab: BAT

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pituitary Gland
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Seminal Vesicle
- \* Prostate
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Skin
- \* Stomach, Forestomach
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- \* Bone Marrow
- \* Harderian Gland
- \* Islets, Pancreatic
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Preputial Gland
- \* Spleen
- Bile Duct
- [ Clear Cell Focus TGLs = 2 - 12 ]
- [ Hyperplasia TGLs = 3 - 20 ]
- [ Squamous Cell Papilloma TGLs = 1 - 19 ]
- Olfactory Epi
- Respirat Epith
- Acinus
- Duct
- Hypercellularity
- Degeneration
- Hyperplasia
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Accumulation, Hyaline Droplet
- Hyperplasia
- Squamous Cell Papilloma
- Extramedullary Hematopoiesis
- Pigment
- Minimal
- Minimal
- Mild
- Chronicprogr, Moderate
- Mild
- Histiocyte, Minimal
- Granulomatous, Minimal
- Moderate
- Minimal
- Moderate
- Mild
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

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Species/Strain: RATS/HSD

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Lab: BAT

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**ANIMAL ID:** 4

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300534

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Testis

Interstit Cell

Adenoma

\* Thymus

Bilateral

Edema

Minimal

Atrophy

Moderate

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Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 540

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Hypercellularity	Moderate
* Brain	Meninges	Schwannoma Malignant	Metastatic (Salivary Glands)
	[ Schwannoma Malignant TGLs = 1-18 ]		
* Eye	Optic Nerve	Schwannoma Malignant	Metastatic (Salivary Glands)
* Harderian Gland		Schwannoma Malignant	Metastatic (Salivary Glands)
* Kidney	Epithelium, Papilla	Hyperplasia	Minimal
	[ Nephropathy TGLs = 2 - 8 ]	Nephropathy	Chronicprogr, Marked
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas		Polyarteritis Nodosa	Minimal
* Salivary Glands		Schwannoma Malignant	
	[ Schwannoma Malignant TGLs = 3-1+21 ]		
* Spleen		Pigment	Mild
* Testis	Bilateral	Edema	Minimal
		Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Salivary Glands Schwannoma Malignant

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 547

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | Blood Vessel             | * Bone                     | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         |
| * Prostate                  | * Seminal Vesicle        | * Skin                     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |  |                           |                               |                         |
|--|---------------------------|-------------------------------|-------------------------|
| * Adrenal Medulla  |                           | Hyperplasia                   | Focal, Minimal          |
| * Bone Marrow  |                           | Hypercellularity              | Moderate                |
| * Kidney   |                           | Nephropathy                   | Chronicprogr, Moderate  |
| * Lung   |                           | Infiltration Cellular         | Histiocyte, Minimal     |
| * Nose   | Olfactory Epi             | Accumulation, Hyaline Droplet | Moderate                |
| * Salivary Glands  |                           | Schwannoma Malignant          |                         |
| Note: Granulation tissue due to marked inflammation.<br>[ Schwannoma Malignant TGLs = 1 - 18+18I ] |                           |                               |                         |
| * Spleen   |                           | Extramedullary Hematopoiesis  | Mild                    |
| * Stomach, Forestomach   |                           | Inflammation                  | Chronic Active, Minimal |
|  |                           | Ulcer                         | Minimal                 |
| * Testis   | Bilateral, Germinal Epith | Degeneration                  | Minimal                 |
| * Thymus   |                           | Atrophy                       | Marked                  |

PRIMARY CAUSE OF DEATH

- Salivary Glands Schwannoma Malignant

\* PROTOCOL REQUIRED TISSUE

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Species/Strain: RATS/HSD

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone Marrow
- \* Brain
- \* Epididymis
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Colon
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Preputial Gland
- \* Salivary Glands
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- Bile Duct
- [ Clear Cell Focus TGLs = 4 - 22 ]
- \* Lung
- \* Nose
- Olfactory Epi
- Glands, Respirat Epith
- \* Pituitary Gland
- \* Prostate
- \* Skin
- Pars Distalis
- Ventral
- Hyperplasia
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Dilation
- Inflammation
- Hyperplasia
- Inflammation
- Cyst Epithelial Inclusion
- Inflammation
- Lymphocyte, Mild
- Chronicprogr, Mild
- Minimal
- Histiocyte, Minimal
- Minimal
- Minimal
- Acute, Minimal
- Minimal
- Chronic, Minimal
- Suppurative, Marked
- Note: Cyst contains hair and hair is present in surrounding inflammatory reaction.
- [ Cyst Epithelial Inclusion TGLs = 1 - 19 ]
- [ Inflammation TGLs = 5 - 23 ]
- \* Spleen
- Extramedullary Hematopoiesis
- Hyperplasia
- Pigment
- Minimal
- Histiocytic, Mild
- Mild

\* PROTOCOL REQUIRED TISSUE

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Species/Strain: RATS/HSD

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Lab: BAT

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**ANIMAL ID:** 7

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300537

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 3 - 21 ]

\* Testis

Bilateral

Edema

Minimal

\* Thymus

Atrophy

Mild

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * Bone                    | * Bone Marrow               |
| * Brain                  | * Epididymis               | * Esophagus               | * Eye                       |
| * Harderian Gland        | * Heart                    | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Parathyroid Gland         |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |   |                |                              |                        |
|---|----------------|------------------------------|------------------------|
| * Adrenal Medulla   |                | Hyperplasia                  | Focal, Mild            |
| * Heart   |                |                              |                        |
| Note: Ectopic C-cells are present in atrial wall (no TDMSE morphology available). |                |                              |                        |
| * Intestine Large, Cecum  |                | Polyarteritis Nodosa         | Minimal                |
| * Intestine Large, Colon  |                | Hyperplasia                  | Lymphocyte, Mild       |
| * Kidney  |                | Nephropathy                  | Chronicprogr, Moderate |
| * Liver   |                | Clear Cell Focus             |                        |
|   | Bile Duct      | Hyperplasia                  | Mild                   |
| * Nose  | Olfactory Epi  | Metaplasia                   | Respiratory, Mild      |
| * Pancreas  | Acinus         | Hyperplasia                  | Moderate               |
| * Pituitary Gland   | Pars Distalis  | Hyperplasia                  | Minimal                |
|   | Pars Distalis  | Hypertrophy                  | Minimal                |
| * Spleen  |                | Extramedullary Hematopoiesis | Mild                   |
|   |                | Pigment                      | Mild                   |
| * Testis  |                | Edema                        | Minimal                |
|   | Interstit Cell | Hyperplasia                  | Focal, Minimal         |
| * Thymus  |                | Atrophy                      | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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Lab: BAT

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 657

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	[ Hepatocellular Carcinoma TGLs = 1 - 18 ]	Hepatocellular Carcinoma	
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 6 - 23 ]		
* Skin	Epidermis	Hyperplasia	Mild
		Inflammation	Chronic Active, Moderate
		Ulcer	Mild
		Note: Skin lesions may represent hepatic dermatopathy (i.e. lesions secondary to liver damage/tumor).	
	[ Inflammation TGLs = 2,3,4,5 - 19+20+21+22 ]		
* Spleen		Extramedullary Hematopoiesis	Moderate
	White Pulp	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 9

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 657

**DOSE:** 0 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300539

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Testis

Bilateral

Pigment

Mild

Edema

Minimal

\* Thymus

Atrophy

Moderate

---

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Skin Inflammation

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Bilateral, Cornea	Inflammation	Acute, Minimal
* Heart		Cardiomyopathy	Mild
	Endocardium	Schwannoma Malignant	
* Intestine Large, Cecum		Polyarteritis Nodosa	Mild
* Kidney	Epithelium, Papilla	Hyperplasia	Minimal
	[ Nephropathy TGLs = 3-8+19 ]	Nephropathy	Chronicprogr, Marked
* Lung		Fibrosis	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Skin		Cyst Epithelial Inclusion	
	[ Cyst Epithelial Inclusion TGLs = 1 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Testis	Bilateral	Polyarteritis Nodosa	Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300540

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

---





Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 530

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Heart                  | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Testis                 | * Trachea                  | * Urinary Bladder         |

MISSING

- \* Intestine Large, Cecum

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                 |                                |                               |                         |
|-----------------|--------------------------------|-------------------------------|-------------------------|
| * Bone Marrow   |                                | Hypercellularity              | Marked                  |
| * Kidney        |                                | Nephropathy                   | Chronicprogr, Minimal   |
| * Lung          |                                | Inflammation                  | Chronic Active, Minimal |
| * Mammary Gland |                                | Fibroadenoma                  |                         |
|                 | [ Fibroadenoma TGLs = 1 - 18 ] |                               |                         |
| * Nose          | Olfactory Epi                  | Accumulation, Hyaline Droplet | Minimal                 |
| * Spleen        |                                | Extramedullary Hematopoiesis  | Moderate                |
| * Thymus        |                                | Atrophy                       | Moderate                |
| * Thyroid Gland | C Cell                         | Hyperplasia                   | Mild                    |

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thymus
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow: Hypercellularity (Minimal)
- \* Epididymis: Bilateral; Polyarteritis Nodosa (Mild)
- \* Eye: Bilateral, Cornea; Inflammation (Acute, Minimal)
- \* Heart: Cardiomyopathy (Minimal)
- \* Kidney: Renal Tubule; Cyst; Nephropathy (Chronicprogr, Marked)
- \* Liver: Clear Cell Focus
- \* Nose: Olfactory Epi; Accumulation, Hyaline Droplet (Moderate)
- \* Pancreas: Acinus; Adenoma (Multiple)  
[ Adenoma TGLs = 1,2 - 18+19 ]
- \* Spleen: Extramedullary Hematopoiesis (Mild); Pigment (Minimal)
- \* Testis: Bilateral, Germinal Epith; Degeneration (Mild); Bilateral; Polyarteritis Nodosa (Mild)
- \* Thyroid Gland: C Cell; Hyperplasia (Mild)

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                   |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus              |
| * Eye                       | * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland          |
| * Pancreas                  | * Parathyroid Gland      | * Preputial Gland          | * Salivary Glands        |
| * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland          |
| * Trachea                   | * Urinary Bladder        |                            |                          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                                   |               |                               |                          |
|-----------------------------------|---------------|-------------------------------|--------------------------|
| * Heart                           |               | Cardiomyopathy                | Minimal                  |
| * Intestine Large, Rectum         |               | Parasite Metazoan             |                          |
| * Kidney                          |               | Nephropathy                   | Chronicprogr, Marked     |
| * Liver                           | Bile Duct     | Hyperplasia                   | Minimal                  |
| * Nose                            | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal                  |
|                                   |               | Inflammation                  | Suppurative, Minimal     |
| * Pituitary Gland                 | Pars Distalis | Adenoma                       |                          |
| [ Adenoma TGLs = 2 - 11 ]         |               |                               |                          |
| * Prostate                        | Ventral       | Inflammation                  | Chronic Active, Minimal  |
| * Skin                            |               | Inflammation                  | Chronic Active, Moderate |
|                                   |               | Keratoacanthoma               |                          |
| [ Keratoacanthoma TGLs = 1 - 18 ] |               |                               |                          |
| * Spleen                          |               | Extramedullary Hematopoiesis  | Minimal                  |
|                                   |               | Pigment                       | Minimal                  |
| * Testis                          | Bilateral     | Polyarteritis Nodosa          | Mild                     |
| * Thymus                          |               | Atrophy                       | Mild                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus               |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |          |  |                              |                        |
|----------|--|------------------------------|------------------------|
| * Eye    | Bilateral, Cornea                      | Inflammation                 | Acute, Minimal         |
| * Heart  |  | Cardiomyopathy               | Minimal                |
| * Kidney |  | Nephropathy                  | Chronicprogr, Moderate |
| * Lung   |  | Infiltration Cellular        | Histiocyte, Minimal    |
|          | [ Infiltration Cellular TGLs = 1 - 6 ] |                              |                        |
| * Spleen | White Pulp                             | Atrophy                      | Minimal                |
|          |  | Extramedullary Hematopoiesis | Minimal                |
|          |  | Pigment                      | Mild                   |
| * Testis | Bilateral                              | Polyarteritis Nodosa         | Minimal                |
| * Thymus |  | Atrophy                      | Mild                   |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 723

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mesenteric

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Minimal
- \* Heart
- Cardiomyopathy
- Mild
- \* Intestine Large, Rectum
- Parasite Metazoan
- \* Kidney
- Renal Tubule
- Cyst
- Nephropathy
- Chronicprogr, Marked
- \* Liver
- Bile Duct
- Hyperplasia
- Minimal
- \* Lung
- Infiltration Cellular
- TGLs = 1 - 6+7 ]
- Infiltration Cellular
- Infiltration Cellular
- Histiocyte, Mild
- Mesentery
- Polyarteritis Nodosa
- Marked
- \* Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Minimal
- Respirat Epith
- Hyperplasia
- Minimal
- Inflammation
- Acute, Minimal
- \* Pancreas
- Olfactory Epi
- Metaplasia
- Respiratory, Minimal
- Artery
- Necrosis
- Mild
- Polyarteritis Nodosa
- Mild
- \* Parathyroid Gland
- Hypertrophy
- Focal, Minimal
- \* Spleen
- White Pulp
- Atrophy
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 723

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300547

ORGAN AND ACCOUNTABLE SITE STATUS

		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Testis	Interstitial Cell	Adenoma	
	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Moderate
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 608

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Liver
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Lung
- \* Nose
- \* Prostate
- \* Spleen
- \* Thymus
- Hypercellularity
- Cardiomyopathy
- Inflammation
- Nephropathy
- Infiltration Cellular
- Metaplasia
- Foreign Body
- Metaplasia
- Hemorrhage
- Inflammation
- Atrophy
- Pigment
- Atrophy
- Mild
- Minimal
- Acute, Mild
- Chronicprogr, Minimal
- Histiocyte, Minimal
- Osseous, Mild
- Respiratory, Minimal
- Marked
- Acute, Marked
- Moderate
- Mild
- Marked

PRIMARY CAUSE OF DEATH

- Prostate Ventral Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule Epithelium, Papilla	Cyst Hyperplasia Nephropathy	Minimal Chronicprogr, Marked
	[ Nephropathy TGLs = 2 - 8 ]		
* Liver	Bile Duct	Clear Cell Focus Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas		Polyarteritis Nodosa	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	Subcut Tiss	Fibroma	
	[ Fibroma TGLs = 1 - 19 ]		
* Spleen		Extramedullary Hematopoiesis Pigment	Mild Minimal
* Testis		Edema	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 642

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Bone Marrow               |
| * Brain                  | * Epididymis               | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Pancreas                 | * Parathyroid Gland       | * Preputial Gland           |
| * Seminal Vesicle        | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                          |  |                               |                    |
|--------------------------|--|-------------------------------|--------------------|
| * Adrenal Cortex         |  | Hypertrophy                   | Focal, Mild        |
| * Eye                    |  | Schwannoma Malignant          | Metastatic (Skin)  |
|                          | [ Schwannoma Malignant TGLs = 2 - 13 ]   |                               |                    |
| * Harderian Gland        |  | Schwannoma Malignant          | Metastatic (Skin)  |
|                          | [ Schwannoma Malignant TGLs = 1 - 18 ]   |                               |                    |
| * Islets, Pancreatic     |  | Hyperplasia                   | Mild               |
| * Kidney                 |  | Nephropathy                   | Chronicprogr, Mild |
| * Liver                  | Bile Duct                                | Hyperplasia                   | Minimal            |
| * Lymph Node, Mandibular |  | Schwannoma Malignant          | Metastatic (Skin)  |
| * Nose                   | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild               |
|                          | Sinus                                    | Schwannoma Malignant          | Metastatic (Skin)  |
|                          | [ Schwannoma Malignant TGLs = 5 - 1+21 ] |                               |                    |
| * Pituitary Gland        |  | Schwannoma Malignant          | Metastatic (Skin)  |
|                          | [ Schwannoma Malignant TGLs = 4 - 20 ]   |                               |                    |
| * Prostate               | Dorsal, Lateral                          | Inflammation                  | Acute, Minimal     |
| * Salivary Glands        |  | Schwannoma Malignant          | Metastatic (Skin)  |
| * Skin                   |  | Schwannoma Malignant          |                    |
|                          | [ Schwannoma Malignant TGLs = 3 - 19 ]   |                               |                    |
| * Spleen                 | White Pulp                               | Atrophy                       | Mild               |
|                          |  | Extramedullary Hematopoiesis  | Minimal            |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 20

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 642

**DOSE:** 0 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300550

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testis	Germinal Epith	Pigment Degeneration	Mild Minimal
* Thymus		Edema Atrophy	Minimal Mild

---

PRIMARY CAUSE OF DEATH - Skin Schwannoma Malignant

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 227

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Liver                  |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Testis                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |            |                              |                  |
|------------|------------------------------|------------------|
| * Lung     | Infiltration Cellular        | Histiocyte, Mild |
| * Pancreas | Polyarteritis Nodosa         | Minimal          |
| * Spleen   | Extramedullary Hematopoiesis | Minimal          |
|            | Pigment                      | Mild             |
| * Thymus   | Atrophy                      | Minimal          |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 476

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Prostate
- \* Trachea
- \* Bone
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Parathyroid Gland
- \* Salivary Glands
- \* Urinary Bladder
- \* Brain
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                        |                              |                              |                      |
|------------------------|------------------------------|------------------------------|----------------------|
| * Adrenal Medulla      |                              | Hyperplasia                  | Focal, Minimal       |
| Blood Vessel           |                              | Mineral                      | Minimal              |
| * Bone Marrow          |                              | Hypercellularity             | Minimal              |
| * Epididymis           | Bilateral, Duct              | Exfoliated Germ Cell         | Minimal              |
| * Eye                  | Cornea                       | Inflammation                 | Acute, Minimal       |
|                        | Iris                         | Inflammation                 | Acute, Minimal       |
| * Heart                |                              | Cardiomyopathy               | Mild                 |
|                        |                              | Mineral                      | Mild                 |
|                        | Artery                       | Mineral                      | Mild                 |
| * Kidney               |                              | Nephropathy                  | Chronicprogr, Marked |
|                        | [ Nephropathy TGLs = 1 - 8 ] |                              |                      |
| * Nose                 |                              | Inflammation                 | Acute, Minimal       |
| * Pancreas             | Artery                       | Mineral                      | Minimal              |
|                        |                              | Polyarteritis Nodosa         | Minimal              |
| * Spleen               | White Pulp                   | Atrophy                      | Mild                 |
|                        |                              | Extramedullary Hematopoiesis | Mild                 |
|                        |                              | Pigment                      | Mild                 |
| * Stomach, Forestomach |                              | Mineral                      | Minimal              |
| * Stomach, Glandular   |                              | Mineral                      | Mild                 |
| * Testis               | Bilateral, Germinal Epith    | Degeneration                 | Minimal              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 22

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 476

**DOSE:** 0 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300552

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus	Bilateral	Polyarteritis Nodosa	Mild
* Thyroid Gland	C Cell	Atrophy	Marked
		Adenoma	

---

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 579

**DOSE:** 0 ppm Male

**DISP:** Natural Death

**HISTO:** 1300553

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Spleen	White Pulp	Atrophy	Moderate
		Pigment	Mild
* Stomach, Forestomach		Mineral	Mild
* Stomach, Glandular		Mineral	Marked
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| Blood Vessel               | * Bone                   | * Bone Marrow               | * Brain                  |
| * Epididymis               | * Esophagus              | * Eye                       | * Harderian Gland        |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland          | * Nose                      | * Parathyroid Gland      |
| * Preputial Gland          | * Prostate               | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Stomach, Forestomach   | * Stomach, Glandular        | * Trachea                |
| * Urinary Bladder          |                          |                             |                          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |                |                              |                     |
|---------------------------|----------------|------------------------------|---------------------|
| * Adrenal Cortex          | Bilateral      | Hypertrophy                  | Focal, Minimal      |
| * Adrenal Medulla         |                | Hyperplasia                  | Focal, Mild         |
| * Heart                   |                | Cardiomyopathy               | Mild                |
| * Intestine Large, Rectum |                | Hyperplasia                  | Lymphocyte, Minimal |
| * Kidney                  |                | Nephropathy                  | Chronicprogr, Mild  |
| * Liver                   |                | Clear Cell Focus             |                     |
| * Pancreas                | Acinus         | Adenoma                      |                     |
|                           | Acinus         | Atrophy                      | Minimal             |
|                           | Acinus         | Hyperplasia                  | Minimal             |
| [ Adenoma TGLs = 1 - 18 ] |                |                              |                     |
| * Pituitary Gland         | Pars Distalis  | Hyperplasia                  | Moderate            |
| * Spleen                  |                | Extramedullary Hematopoiesis | Mild                |
|                           |                | Pigment                      | Mild                |
| * Testis                  | Germinal Epith | Degeneration                 | Minimal             |
|                           | Bilateral      | Edema                        | Minimal             |
| * Thymus                  |                | Atrophy                      | Mild                |
| * Thyroid Gland           | C Cell         | Adenoma                      |                     |
|                           | C Cell         | Hyperplasia                  | Marked              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 577

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Preputial Gland
- \* Skin
- \* Urinary Bladder
- Blood Vessel
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Prostate
- \* Stomach, Forestomach
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone
- \* Bone Marrow
- \* Eye
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Spleen
- \* Testis
- \* Thymus
- \* Thyroid Gland
- Zymbal's Gland
- Cartilage, Joint
- Bilateral, Cornea
- Artery
- Olfactory Epi
- C Cell
- Hypertrophy
- Degeneration
- Hypercellularity
- Inflammation
- Nephropathy
- Necrosis
- Infiltration Cellular
- Mineral
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Atrophy
- Polyarteritis Nodosa
- Adenoma
- Carcinoma
- Focal, Minimal
- Minimal
- Moderate
- Acute, Minimal
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Minimal
- Mild
- Mild
- Minimal
- Moderate
- Minimal
- Moderate
- Minimal

[ Carcinoma TGLs = 1 - 18 ]

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 547

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Bone Marrow               |
| * Brain                  | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           |
| * Prostate               | * Seminal Vesicle          | * Skin                    | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

MISSING

- \* Thymus

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                          |                              |                       |                      |
|--------------------------|------------------------------|-----------------------|----------------------|
| Blood Vessel             |                              | Mineral               | Marked               |
| * Epididymis             | Bilateral, Duct              | Exfoliated Germ Cell  | Moderate             |
| * Heart                  |                              | Cardiomyopathy        | Moderate             |
|                          |                              | Mineral               | Minimal              |
| * Kidney                 | Artery                       | Mineral               | Moderate             |
|                          | Epithelium, Papilla          | Hyperplasia           | Mild                 |
|                          | Artery                       | Mineral               | Mild                 |
|                          |                              | Nephropathy           | Chronicprogr, Marked |
|                          | [ Nephropathy TGLs = 1 - 8 ] |                       |                      |
| * Lung                   |                              | Infiltration Cellular | Histiocyte, Minimal  |
|                          | Artery                       | Mineral               | Mild                 |
| * Lymph Node, Mandibular |                              | Atrophy               | Mild                 |
| * Lymph Node, Mesenteric |                              | Atrophy               | Moderate             |
| * Mammary Gland          | Artery                       | Mineral               | Mild                 |
| * Nose                   |                              | Inflammation          | Acute, Minimal       |
| * Salivary Glands        | Artery                       | Mineral               | Mild                 |
| * Spleen                 | White Pulp                   | Atrophy               | Marked               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 26

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 547

**DOSE:** 0 ppm Male

**DISP:** Natural Death

**HISTO:** 1300556

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Stomach, Forestomach	Artery	Pigment	Moderate
* Stomach, Glandular	Artery	Mineral	Minimal
* Stomach, Glandular	Artery	Mineral	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Mild
	Bilateral	Polyarteritis Nodosa	Mild

---

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Mammary Gland          | * Parathyroid Gland        |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                      |   |                               |                        |
|----------------------|---|-------------------------------|------------------------|
| * Heart              |   | Cardiomyopathy                | Minimal                |
|                      |   | Schwannoma Malignant          |                        |
| * Islets, Pancreatic |   | Adenoma                       |                        |
| * Kidney             |   | Nephropathy                   | Chronicprogr, Moderate |
| * Liver              |   | Clear Cell Focus              |                        |
| * Lung               |   | Infiltration Cellular         | Histiocyte, Moderate   |
|                      |   | Inflammation                  | Granulomatous, Minimal |
| * Nose               | Olfactory Epi                               | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas           | Acinus                                      | Adenoma                       | Multiple               |
|                      | Acinus                                      | Hyperplasia                   | Marked                 |
|                      | [ Adenoma TGLs = 2 - 20 ]                   |                               |                        |
| * Skin               |   | Cyst Epithelial Inclusion     |                        |
|                      | [ Cyst Epithelial Inclusion TGLs = 1 - 19 ] |                               |                        |
| * Spleen             |   | Extramedullary Hematopoiesis  | Mild                   |
|                      |   | Pigment                       | Mild                   |
| * Testis             | Bilateral                                   | Edema                         | Minimal                |
| * Thymus             |   | Atrophy                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 328

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Salivary Glands
- \* Testis
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Liver
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Trachea

MISSING

- \* Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |   |  |  |   |
|---|--|--|---|
| <ul style="list-style-type: none"> <li>* Adrenal Cortex</li> <li>Blood Vessel</li> <li>* Bone Marrow</li> <li>* Heart</li> <li>* Kidney</li> <li>* Lung</li> <li>* Lymph Node, Mesenteric</li> <li>* Mammary Gland</li> <li style="padding-left: 20px;">[ Adenocarcinoma TGLs = 1 - 18 ]</li> <li>* Nose</li> <li>* Spleen</li> <li>* Stomach, Glandular</li> </ul> | <ul style="list-style-type: none"> <li>Artery</li> <li>Artery</li> </ul> | <ul style="list-style-type: none"> <li>Necrosis</li> <li>Mineral</li> <li>Hypercellularity</li> <li>Cardiomyopathy</li> <li>Mineral</li> <li>Mineral</li> <li>Nephropathy</li> <li>Adenocarcinoma</li> <li>Infiltration Cellular</li> <li>Mineral</li> <li>Atrophy</li> <li>Adenocarcinoma</li> <li>Inflammation</li> <li>Extramedullary Hematopoiesis</li> <li>Mineral</li> </ul> | <ul style="list-style-type: none"> <li>Minimal</li> <li>Moderate</li> <li>Moderate</li> <li>Minimal</li> <li>Moderate</li> <li>Moderate</li> <li>Chronicprogr, Minimal</li> <li>Metastatic (Mammary Gland)</li> <li>Histiocyte, Minimal</li> <li>Moderate</li> <li>Mild</li> <li>Suppurative, Mild</li> <li>Moderate</li> <li>Marked</li> </ul> |
|---|--|--|---|

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 28

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 328

**DOSE:** 0 ppm Male

**DISP:** Natural Death

**HISTO:** 1300558

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Mammary Gland Adenocarcinoma

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testis                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |   |                               |                        |
|-------------------|---|-------------------------------|------------------------|
| * Bone Marrow     |   | Hypercellularity              | Moderate               |
| * Kidney          |   | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |   | Clear Cell Focus              |                        |
|                   | Bile Duct                               | Hyperplasia                   | Minimal                |
| Lymph Node        | Pancreatic                              | Hyperplasia                   | Lymphocyte, Mild       |
|                   | Lumbar                                  | Infiltration Cellular         | Plasma Cell, Minimal   |
|                   | [ Hyperplasia TGLs = 4 - 20 ]           |                               |                        |
|                   | [ Infiltration Cellular TGLs = 6 - 21 ] |                               |                        |
| * Nose            | Olfactory Epi                           | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas        | Acinus                                  | Adenoma                       |                        |
|                   |   | Basophilic Focus              |                        |
|                   | [ Adenoma TGLs = 2 - 20 ]               |                               |                        |
|                   | [ Basophilic Focus TGLs = 5 - 20 ]      |                               |                        |
| * Pituitary Gland | Pars Distalis                           | Hyperplasia                   | Minimal                |
| * Skin            |   | Schwannoma Malignant          |                        |
|                   | [ Schwannoma Malignant TGLs = 1 - 19 ]  |                               |                        |
| * Spleen          |   | Extramedullary Hematopoiesis  | Moderate               |
| * Thymus          |   | Atrophy                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300560

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**PRESENT BUT NOT EXAMINED**

Testes

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Epididymis	Bilateral	Polyarteritis Nodosa	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
		Inflammation	Acute, Minimal
* Pancreas	Acinus	Adenoma	
		Polyarteritis Nodosa	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	Pars Distalis	Hypertrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 30

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300560

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testis		Edema	Minimal
	Bilateral	Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
[ Adenoma TGLs = 1 - 11 ]			

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 610

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Pancreas               |
| * Preputial Gland          | * Prostate                | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Testis                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |   |               |                               |                    |
|---|---------------|-------------------------------|--------------------|
| * Kidney  |               | Nephropathy                   | Chronicprogr, Mild |
| * Nose  | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal            |
| Peripheral Nerve  | Axon          | Degeneration                  | Mild               |
| Note: Degeneration also visible in nerve roots in lumbar spinal cord section.                   |               |                               |                    |
| * Pituitary Gland   | Pars Distalis | Hyperplasia                   | Mild               |
| Spinal Cord   | Nerve         | Degeneration                  | Minimal            |
| Note: Degeneration is in the nerve roots of the lumbar cord, and not in the spinal cord per se. |               |                               |                    |
| * Spleen  |               | Extramedullary Hematopoiesis  | Mild               |
|   |               | Pigment                       | Mild               |
| * Thymus  |               | Atrophy                       | Mild               |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Pancreas                | * Parathyroid Gland         | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |  |   |
|-------------------|--|--|---|
| * Kidney          | Pelvis                                   | Inflammation<br>Nephropathy                                    | Acute, Minimal<br>Chronicprogr, Minimal |
| * Liver           |  | Clear Cell Focus<br>Necrosis                                   | Minimal                                 |
| * Lung            | [ Infiltration Cellular TGLs = 2 - 6+7 ] | Infiltration Cellular  | Histiocyte, Moderate                    |
| * Nose            | Olfactory Epi<br>Respirat Epith          | Accumulation, Hyaline Droplet<br>Accumulation, Hyaline Droplet | Mild<br>Minimal                         |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia  | Mild                                    |
| * Preputial Gland | [ Inflammation TGLs = 1 - 19 ]           | Inflammation   | Chronic Active, Marked                  |
| * Spleen          |  | Extramedullary Hematopoiesis<br>Pigment                        | Mild<br>Minimal                         |
| * Testis          | Bilateral                                | Edema  | Minimal                                 |
| * Thymus          |  | Atrophy  | Mild                                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Pancreas                 | * Parathyroid Gland       |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                      |                                |                               |                     |
|----------------------|--------------------------------|-------------------------------|---------------------|
| * Epididymis         | Bilateral                      | Hypospermia                   | Moderate            |
| * Heart              |                                | Cardiomyopathy                | Minimal             |
| * Islets, Pancreatic |                                | Hyperplasia                   | Minimal             |
| * Kidney             |                                | Nephropathy                   | Chronicprogr, Mild  |
| * Liver              |                                | Clear Cell Focus              |                     |
|                      | Bile Duct                      | Hyperplasia                   | Minimal             |
| * Lung               |                                | Infiltration Cellular         | Histiocyte, Minimal |
| * Nose               | Olfactory Epi                  | Accumulation, Hyaline Droplet | Minimal             |
|                      |                                | Inflammation                  | Acute, Minimal      |
| * Pituitary Gland    | Pars Distalis                  | Hyperplasia                   | Moderate            |
| * Preputial Gland    |                                | Inflammation                  | Suppurative, Marked |
|                      | [ Inflammation TGLs = 1 - 19 ] |                               |                     |
| * Prostate           | Epithelium, Ventral            | Hyperplasia                   | Mild                |
| * Testis             | Bilateral, Germinal Epith      | Degeneration                  | Moderate            |
|                      |                                | Edema                         | Moderate            |
| * Thyroid Gland      | C Cell                         | Adenoma                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 593

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                      |                               |                              |                       |
|----------------------|-------------------------------|------------------------------|-----------------------|
| * Bone Marrow        |                               | Hypercellularity             | Marked                |
| * Epididymis         | Bilateral                     | Hypospermia                  | Mild                  |
|                      |                               | Mesothelioma Malignant       |                       |
| * Islets, Pancreatic |                               | Hyperplasia                  | Moderate              |
| * Kidney             |                               | Nephropathy                  | Chronicprogr, Minimal |
| * Liver              |                               | Clear Cell Focus             |                       |
| * Pituitary Gland    | Pars Distalis                 | Hyperplasia                  | Minimal               |
| * Skin               | Subcut Tiss                   | Liposarcoma                  |                       |
|                      | [ Liposarcoma TGLs = 1 - 18 ] |                              |                       |
| * Spleen             |                               | Extramedullary Hematopoiesis | Moderate              |
| * Testis             | Germinal Epith                | Degeneration                 | Moderate              |
|                      |                               | Edema                        | Moderate              |
|                      |                               | Mesothelioma Malignant       |                       |
|                      | [ Degeneration TGLs = 2-16 ]  |                              |                       |
| * Thymus             |                               | Atrophy                      | Moderate              |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Liposarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Testis	Bilateral	Edema	Minimal
	Tunic	Hyperplasia	Mesothelium, Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Preputial Gland         | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testis                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                     |                              |                    |
|-------------------|---------------------|------------------------------|--------------------|
| * Bone Marrow     |                     | Hypercellularity             | Minimal            |
| * Kidney          | Renal Tubule        | Cyst                         |                    |
|                   |                     | Nephropathy                  | Chronicprogr, Mild |
| * Liver           |                     | Clear Cell Focus             |                    |
|                   | Bile Duct           | Hyperplasia                  | Minimal            |
| * Pituitary Gland | Pars Distalis       | Hyperplasia                  | Mild               |
| * Prostate        | Epithelium, Ventral | Hyperplasia                  | Moderate           |
| * Spleen          |                     | Extramedullary Hematopoiesis | Mild               |
|                   |                     | Pigment                      | Minimal            |
| * Thymus          |                     | Atrophy                      | Mild               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * Bone                    | * Bone Marrow               |
| * Brain                  | * Epididymis               | * Esophagus               | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Parathyroid Gland        | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                                 |                               |                        |
|-------------------|---------------------------------|-------------------------------|------------------------|
| * Adrenal Medulla |                                 | Hyperplasia                   | Focal, Mild            |
| * Eye             | Lens                            | Cataract                      | Marked                 |
|                   | Retina                          | Degeneration                  | Marked                 |
|                   | Cornea                          | Inflammation                  | Acute, Mild            |
|                   | [ Cataract TGLs = 1 - 13 ]      |                               |                        |
| * Heart           |                                 | Cardiomyopathy                | Minimal                |
| * Kidney          |                                 | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |                                 | Clear Cell Focus              |                        |
|                   | Bile Duct                       | Hyperplasia                   | Minimal                |
| * Lung            |                                 | Infiltration Cellular         | Histiocyte, Minimal    |
| * Mammary Gland   |                                 | Hyperplasia                   | Minimal                |
| * Nose            | Olfactory Epi                   | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas        | Acinus                          | Adenoma                       | Multiple               |
|                   | Acinus                          | Hyperplasia                   | Marked                 |
|                   | [ Adenoma TGLs = 2,3,4,5 - 18 ] |                               |                        |
| * Pituitary Gland | Pars Distalis                   | Hyperplasia                   | Moderate               |
| * Spleen          |                                 | Extramedullary Hematopoiesis  | Minimal                |
|                   |                                 | Pigment                       | Minimal                |
| * Testis          | Bilateral                       | Edema                         | Minimal                |
| * Thymus          |                                 | Atrophy                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | Blood Vessel                | * Bone                   | * Bone Marrow              |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Parathyroid Gland         | * Preputial Gland        | * Salivary Glands          |
| * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |                     |                               |                        |
|---------------------------|---------------------|-------------------------------|------------------------|
| * Adrenal Medulla         |                     | Pheochromocytoma Benign       |                        |
| [ Pheochromocytoma Benign | TGLs = 2 - 18 ]     |                               |                        |
| * Kidney                  |                     | Nephropathy                   | Chronicprogr, Moderate |
| * Liver                   |                     | Clear Cell Focus              |                        |
| * Nose                    | Olfactory Epi       | Accumulation, Hyaline Droplet | Marked                 |
| * Pancreas                | Acinus              | Adenoma                       | Multiple               |
|                           | Acinus              | Hyperplasia                   | Marked                 |
|                           | [ Adenoma           | Polyarteritis Nodosa          | Minimal                |
|                           | TGLs = 3- 20 ]      |                               |                        |
| * Pituitary Gland         | Pars Distalis       | Hyperplasia                   | Minimal                |
| * Prostate                | Epithelium, Ventral | Hyperplasia                   | Minimal                |
| * Skin                    |                     | Trichoepithelioma             |                        |
|                           | [ Trichoepithelioma |                               |                        |
|                           | TGLs = 1 - 21 ]     |                               |                        |
| * Spleen                  |                     | Extramedullary Hematopoiesis  | Mild                   |
|                           |                     | Pigment                       | Minimal                |
| * Testis                  | Bilateral           | Polyarteritis Nodosa          | Minimal                |
| * Thymus                  |                     | Atrophy                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANATOMY PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 708

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Eye	Cornea	Inflammation	Acute, Mild
* Kidney	Renal Tubule	Adenoma	
	Epithelium, Papilla	Hyperplasia	Mild
	[ Nephropathy TGLs = 2 - 8 ]	Nephropathy	Chronicprogr, Marked
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
	[ Infiltration Cellular TGLs = 4 - 19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Adenoma	
	[ Adenoma TGLs = 6 - 20 ]		
* Prostate	Ventral	Inflammation	Acute, Minimal
* Seminal Vesicle	Bilateral	Inflammation	Acute, Mild
	[ Inflammation TGLs = 5 - 15 ]		
* Skin		Inflammation	Chronic Active, Marked
	[ Inflammation TGLs = 1 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Marked
	[ Extramedullary Hematopoiesis TGLs = 3 - 8 ]		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 39

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 708

**DOSE:** 0 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300569

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testis	Germinal Epith	Degeneration	Minimal
	Interstit Cell	Hyperplasia	Focal, Mild
	Bilateral	Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH - Skin Inflammation

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Parathyroid Gland       | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testis                   | * Trachea                 | * Urinary Bladder           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                               |                         |
|-------------------|--|-------------------------------|-------------------------|
| * Adrenal Cortex  |  | Hyperplasia                   | Focal, Mild             |
| * Bone Marrow     |  | Hypercellularity              | Marked                  |
| * Heart           |  | Cardiomyopathy                | Minimal                 |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver           |  | Clear Cell Focus              |                         |
|                   | Bile Duct                                      | Dilation                      | Mild                    |
|                   | Bile Duct                                      | Hyperplasia                   | Minimal                 |
|                   | [ Dilation TGLs = 3 - 20 ]                     |                               |                         |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Minimal     |
|                   |  | Inflammation                  | Chronic Active, Minimal |
| * Nose            | Olfactory Epi                                  | Accumulation, Hyaline Droplet | Moderate                |
| * Pancreas        |  | Basophilic Focus              |                         |
|                   | Acinus   | Hyperplasia                   | Marked                  |
| * Pituitary Gland | Pars Distalis                                  | Hyperplasia                   | Moderate                |
| * Skin            | Subcut Tiss                                    | Fibroma                       |                         |
|                   |  | Squamous Cell Carcinoma       |                         |
|                   | [ Fibroma TGLs = 4 - 21 ]                      |                               |                         |
|                   | [ Squamous Cell Carcinoma TGLs = 1 - 19 ]      |                               |                         |
| * Spleen          |  | Extramedullary Hematopoiesis  | Moderate                |
|                   | [ Extramedullary Hematopoiesis TGLs = 2 - 18 ] |                               |                         |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 40

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300570

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

\* Thyroid Gland

C Cell

Adenoma

C Cell

Carcinoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Parathyroid Gland       | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                        |                                      |  |                    |
|------------------------|--------------------------------------|--|--------------------|
| * Adrenal Cortex       |                                      | Hyperplasia                            | Focal, Minimal     |
| * Bone Marrow          |                                      | Hypercellularity                       | Minimal            |
| * Heart                | Valve                                | Inflammation                           | Chronic, Minimal   |
| * Kidney               | [ Nephropathy TGLs = 3 - 8 ]         | Nephropathy                            | Chronicprogr, Mild |
| * Liver                | [ Eosinophilic Focus TGLs = 1 - 19 ] | Clear Cell Focus<br>Eosinophilic Focus |                    |
| * Mammary Gland        | [ Fibroadenoma TGLs = 2 - 20 ]       | Fibroadenoma                           |                    |
| * Nose                 | Olfactory Epi                        | Accumulation, Hyaline Droplet          | Mild               |
| * Pancreas             | Acinus                               | Hyperplasia                            | Minimal            |
| * Pituitary Gland      | Pars Distalis                        | Adenoma                                |                    |
| * Spleen               |                                      | Extramedullary Hematopoiesis           | Mild               |
|                        |                                      | Pigment                                | Mild               |
| * Stomach, Forestomach |                                      | Inflammation                           | Chronic, Minimal   |
| * Testis               | Bilateral                            | Polyarteritis Nodosa                   | Minimal            |
| * Thymus               |                                      | Atrophy                                | Mild               |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Urinary Bladder
- Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
  - [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- \* Thyroid Gland
- Degeneration
- Cardiomyopathy
- Infarct
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Hyperplasia
- Adenoma
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Atrophy
- Adenoma
- Cystic, Minimal
- Minimal
- Minimal
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Minimal
- Moderate
- Minimal
- Mild
- Minimal
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Epididymis
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Seminal Vesicle
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Preputial Gland
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Prostate
- \* Stomach, Glandular
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Eye
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- Choroid
- Atrium
- Renal Tubule Epithelium, Papilla
- Pheochromocytoma Benign
- Hypercellularity
- Hyperplasia
- Cardiomyopathy
- Polyarteritis Nodosa
- Thrombus
- Cyst
- Hyperplasia
- Nephropathy
- Degeneration
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Polyarteritis Nodosa
- Minimal
- Mild
- Mild
- Mild
- Minimal
- Minimal
- Chronicprogr, Marked
- Cystic, Minimal
- Histiocyte, Marked
- Chronic Active, Mild
- Minimal
- Mild

[ Cyst TGLs = 2 - 20 ]

[ Nephropathy TGLs = 1 - 8+19+20 ]

[ Infiltration Cellular TGLs = 3 - 7 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300573

**ORGAN AND ACCOUNTABLE SITE STATUS**

Peripheral Nerve	Ganglion	Vacuolization Cytoplasmic	Minimal
Note: Ganglia around seminal vesicles have vacuolated neurons.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Stomach, Forestomach		Polyarteritis Nodosa	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Minimal

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 685

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Liver
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
  - \* Heart
  - \* Kidney
  - \* Lung
  - \* Nose
  - \* Prostate
  - \* Seminal Vesicle
  - \* Spleen
  - \* Testis
  - \* Thymus
  - \* Urinary Bladder
- Renal Tubule
- Pelvis
- Olfactory Epi
- Ventral
- Dorsal, Lateral
- Bilateral
- Bilateral
- Hypercellularity
- Cardiomyopathy
- Cyst
- Inflammation
- Nephropathy
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Inflammation
- Inflammation
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Polyarteritis Nodosa
- Atrophy
- Inflammation
- Minimal
- Mild
- Suppurative, Mild
- Chronicprogr, Marked
- Histiocyte, Mild
- Chronic Active, Minimal
- Mild
- Chronic Active, Marked
- Chronic Active, Marked
- Chronic Active, Mild
- Minimal
- Mild
- Mild
- Chronic Active, Minimal

PRIMARY CAUSE OF DEATH - Prostate Ventral Inflammation

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 598

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300575

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Epididymis	* Parathyroid Gland	* Testis
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**PRESENT BUT NOT EXAMINED**

Testes

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Complex	
Blood Vessel		Mineral	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Marked
	[ Nephropathy TGLs = 1 - 8 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
Peripheral Nerve	Ganglion	Vacuolization Cytoplasmic	Minimal
	Note: A ganglion associated with the prostate has neuronal vacuoles.		
* Prostate	Ventral	Inflammation	Chronic Active, Minimal
* Spleen	White Pulp	Atrophy	Minimal
		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Thymus		Atrophy	Mild

**PRIMARY CAUSE OF DEATH**

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 673

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hyperplasia	Focal, Minimal
* Eye	Cornea	Inflammation	Acute, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Skin		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 1 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Moderate
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Skin Keratoacanthoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 436

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Islets, Pancreatic
- \* Liver
- \* Mammary Gland
- \* Pancreas
- \* Preputial Gland
- \* Prostate
- \* Skin
- \* Stomach, Forestomach
- \* Trachea
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Thyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Epididymis [ Hypospermia TGLs = 3 - 14 ] Bilateral Hypospermia Minimal
- \* Kidney Nephropathy Chronicprogr, Minimal
- \* Lung Infiltration Cellular Histiocyte, Minimal
- Lymph Node [ Hemorrhage TGLs = 4 - 18 ] Mediastinal Hemorrhage Moderate
- \* Nose Olfactory Epi Accumulation, Hyaline Droplet Minimal
- \* Spleen White Pulp Atrophy Minimal
- Extramedullary Hematopoiesis Minimal
- \* Testis Germinal Epith Degeneration Moderate
- Edema Mild
- [ Degeneration TGLs = 1 - 16 ]
- \* Thymus Atrophy Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Di(2-ethylhexyl) Phthalate  
CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
Time Report Requested: 13:48:37  
First Dose M/F: 06/27/11 / 06/28/11  
Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 577

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Heart	Schwann Cell	Hyperplasia	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral	Edema	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 707

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Bone                      | * Bone Marrow            | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Thyroid Gland            |
| * Trachea                 |                             |                          |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                        |                     |                       |                         |
|------------------------|---------------------|-----------------------|-------------------------|
| * Adrenal Medulla      | Bilateral           | Hyperplasia           | Focal, Mild             |
| Blood Vessel           |                     | Mineral               | Mild                    |
| * Brain                |                     | Necrosis              | Mild                    |
| * Epididymis           | Bilateral, Duct     | Exfoliated Germ Cell  | Marked                  |
|                        |                     | Inflammation          | Chronic Active, Minimal |
| * Heart                |                     | Cardiomyopathy        | Moderate                |
|                        |                     | Mineral               | Mild                    |
| * Kidney               | Renal Tubule        | Cyst                  |                         |
|                        | Epithelium, Papilla | Hyperplasia           | Minimal                 |
|                        |                     | Nephropathy           | Chronicprogr, Marked    |
| * Liver                | Bile Duct           | Hyperplasia           | Minimal                 |
| * Lung                 |                     | Infiltration Cellular | Histiocyte, Minimal     |
|                        |                     | Mineral               | Minimal                 |
| Mesentery              | Artery              | Mineral               | Mild                    |
| * Parathyroid Gland    |                     | Hyperplasia           | Diffuse, Moderate       |
| * Pituitary Gland      | Pars Distalis       | Hyperplasia           | Minimal                 |
| Skeletal Muscle        | Artery              | Mineral               | Mild                    |
| * Spleen               | White Pulp          | Atrophy               | Marked                  |
|                        |                     | Pigment               | Moderate                |
| * Stomach, Forestomach | Epithelium          | Hyperplasia           | Mild                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 707

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300579

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Stomach, Glandular		Inflammation	Chronic, Minimal
* Testis	Interstit Cell	Mineral	Moderate
	Bilateral	Adenoma	
* Thymus		Polyarteritis Nodosa	Mild
* Urinary Bladder	Artery	Atrophy	Marked
		Mineral	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 597

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Rectum
- \* Mammary Gland
- \* Preputial Gland
- \* Thyroid Gland
- \* Bone
- \* Harderian Gland
- \* Islets, Pancreatic
- \* Nose
- \* Seminal Vesicle
- \* Trachea
- \* Bone Marrow
- \* Intestine Large, Cecum
- \* Liver
- \* Pancreas
- \* Skin
- \* Urinary Bladder
- \* Brain
- \* Intestine Large, Colon
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Forestomach

MISSING

- \* Thymus

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                               |                     |                       |                      |
|-------------------------------|---------------------|-----------------------|----------------------|
| * Adrenal Cortex              |                     | Necrosis              | Minimal              |
| Blood Vessel                  |                     | Mineral               | Moderate             |
| * Epididymis                  | Bilateral, Duct     | Exfoliated Germ Cell  | Mild                 |
|                               | Bilateral           | Hypospermia           | Moderate             |
| * Eye                         | Cornea              | Inflammation          | Acute, Mild          |
| * Heart                       |                     | Cardiomyopathy        | Moderate             |
|                               | Artery              | Mineral               | Mild                 |
|                               |                     | Mineral               | Minimal              |
| * Intestine Small, Duodenum   | Artery              | Mineral               | Mild                 |
| * Intestine Small, Ileum      | Artery              | Mineral               | Mild                 |
| * Intestine Small, Jejunum    | Artery              | Mineral               | Mild                 |
| * Kidney                      | Renal Tubule        | Cyst                  |                      |
|                               | Epithelium, Papilla | Hyperplasia           | Mild                 |
|                               | Artery              | Mineral               | Mild                 |
|                               |                     | Nephropathy           | Chronicprogr, Marked |
| [ Nephropathy TGLs = 1 - 18 ] |                     |                       |                      |
| * Lung                        |                     | Infiltration Cellular | Histiocyte, Minimal  |
|                               |                     | Mineral               | Minimal              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 597

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300580

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Atrophy	Minimal
Mesentery	Artery	Mineral	Mild
* Parathyroid Gland		Hyperplasia	Diffuse, Mild
* Prostate	Artery	Mineral	Mild
* Salivary Glands	Artery	Mineral	Mild
		Polyarteritis Nodosa	Mild
* Spleen	White Pulp	Atrophy	Mild
		Pigment	Mild
* Stomach, Glandular		Mineral	Moderate
* Testis		Degeneration	Moderate
	Bilateral, Germinal Epith	Degeneration	Moderate
	Interstit Cell	Hyperplasia	Focal, Moderate
	Bilateral	Polyarteritis Nodosa	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 314

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testis                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |               |               |                               |                       |
|---------------|---------------|-------------------------------|-----------------------|
| * Bone Marrow |               | Hypercellularity              | Minimal               |
| * Brain       |               | Necrosis                      | Marked                |
| * Heart       |               | Cardiomyopathy                | Minimal               |
| * Kidney      |               | Nephropathy                   | Chronicprogr, Minimal |
| * Liver       |               | Necrosis                      | Moderate              |
| * Nose        | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal               |
| * Spleen      | White Pulp    | Atrophy                       | Marked                |
|               |               | Pigment                       | Mild                  |
| * Thymus      |               | Atrophy                       | Minimal               |

PRIMARY CAUSE OF DEATH

- Brain Necrosis

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Preputial Gland         | * Prostate                  | * Salivary Glands        |
| * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Trachea                  | * Urinary Bladder         |                             |                          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                              |                              |                                 |
|-------------------|------------------------------|------------------------------|---------------------------------|
| * Kidney          | Renal Tubule                 | Hyperplasia<br>Nephropathy   | Minimal<br>Chronicprogr, Marked |
|                   | [ Nephropathy TGLs = 2 - 8 ] |                              |                                 |
| * Lung            |                              | Infiltration Cellular        | Histiocyte, Minimal             |
| * Pituitary Gland | Pars Distalis                | Adenoma                      |                                 |
|                   | [ Adenoma TGLs = 1 - 11 ]    |                              |                                 |
| * Spleen          |                              | Extramedullary Hematopoiesis | Mild                            |
|                   |                              | Pigment                      | Mild                            |
| * Testis          | Germinal Epith               | Degeneration                 | Minimal                         |
| * Thymus          |                              | Atrophy                      | Moderate                        |
| * Thyroid Gland   | C Cell                       | Adenoma                      | Multiple                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 486

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300583

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

**PRESENT BUT NOT EXAMINED**

Testes

**OBSERVATIONS**

* Kidney		Infarct Nephropathy	Minimal Chronicprogr, Minimal
* Liver		Eosinophilic Focus	
Note: TGL-2 (block 18) = congenital malformation, not an available term in TDMSE.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
Skel Muscle Note: TGL-1(block 18) = diaphragmatic hernia (congenital malformation), not available terms in TDMSE.			
* Spleen	White Pulp	Atrophy Extramedullary Hematopoiesis Pigment	Mild Minimal Minimal
* Testis	Germinal Epith Bilateral	Degeneration Polyarteritis Nodosa	Minimal Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel             | * Bone                      | * Bone Marrow            | * Brain                    |
| * Esophagus              | * Eye                       | * Harderian Gland        | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland          | * Pancreas                  | * Preputial Gland        | * Salivary Glands          |
| * Seminal Vesicle        | * Skin                      | * Stomach, Glandular     | * Trachea                  |
| * Urinary Bladder        |                             |                          |                            |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                           |                           |                               |                    |
|---------------------------|---------------------------|-------------------------------|--------------------|
| * Adrenal Cortex          |                           | Hypertrophy                   | Focal, Minimal     |
| * Adrenal Medulla         |                           | Hyperplasia                   | Focal, Minimal     |
| * Epididymis              | Bilateral                 | Hypospermia                   | Moderate           |
| * Heart                   |                           | Cardiomyopathy                | Minimal            |
| * Intestine Large, Rectum |                           | Parasite Metazoan             |                    |
| * Kidney                  |                           | Nephropathy                   | Chronicprogr, Mild |
| * Liver                   |                           | Clear Cell Focus              |                    |
| * Nose                    | Olfactory Epi             | Accumulation, Hyaline Droplet | Mild               |
| * Pituitary Gland         | Pars Distalis             | Hyperplasia                   | Minimal            |
|                           | Pars Distalis             | Hypertrophy                   | Minimal            |
| * Prostate                | Epithelium, Ventral       | Hyperplasia                   | Minimal            |
| * Spleen                  |                           | Extramedullary Hematopoiesis  | Mild               |
|                           |                           | Pigment                       | Minimal            |
| * Stomach, Forestomach    | Epithelium                | Hyperplasia                   | Minimal            |
| * Testis                  | Bilateral, Germinal Epith | Degeneration                  | Moderate           |
|                           | Bilateral                 | Edema                         | Moderate           |
|                           | Bilateral                 | Polyarteritis Nodosa          | Mild               |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 54

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 300 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300584

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

\* Thyroid Gland

C Cell

Hyperplasia

Marked

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 545

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Mammary Gland             | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testis                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                          |               |                               |                       |
|--------------------------|---------------|-------------------------------|-----------------------|
| * Bone Marrow            |               | Hypercellularity              | Mild                  |
| * Kidney                 |               | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                  |               | Leukemia Mononuclear          |                       |
| * Lung                   |               | Infiltration Cellular         | Histiocyte, Minimal   |
| * Lymph Node, Mandibular |               | Leukemia Mononuclear          |                       |
| * Lymph Node, Mesenteric |               | Leukemia Mononuclear          |                       |
| * Nose                   | Olfactory Epi | Accumulation, Hyaline Droplet | Mild                  |
| * Spleen                 |               | Leukemia Mononuclear          |                       |
| * Thymus                 |               | Atrophy                       | Mild                  |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 546

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | Blood Vessel              | * Bone                      | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        |
| * Preputial Gland          | * Salivary Glands         | * Skin                      | * Stomach, Forestomach   |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

MISSING

- \* Thymus

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                          |                                      |                              |                        |
|--------------------------|--------------------------------------|------------------------------|------------------------|
| * Adrenal Medulla        |                                      | Hyperplasia                  | Focal, Moderate        |
| * Bone Marrow            |                                      | Hypercellularity             | Moderate               |
| * Epididymis             | Bilateral, Duct                      | Exfoliated Germ Cell         | Mild                   |
| * Heart                  | Artery                               | Mineral                      | Minimal                |
| * Kidney                 |                                      | Mineral                      | Mild                   |
|                          |                                      | Nephropathy                  | Chronicprogr, Moderate |
|                          | [ Nephropathy TGLs = 2 - 8 ]         |                              |                        |
| * Liver                  | Bile Duct                            | Hyperplasia                  | Minimal                |
| * Lung                   |                                      | Infiltration Cellular        | Histiocyte, Minimal    |
| * Lymph Node, Mandibular |                                      | Atrophy                      | Moderate               |
| Mesentery                |                                      | Schwannoma Malignant         |                        |
|                          | [ Schwannoma Malignant TGLs = 1-18 ] |                              |                        |
| * Prostate               | Ventral                              | Inflammation                 | Suppurative, Mild      |
| * Seminal Vesicle        |                                      | Inflammation                 | Suppurative, Mild      |
| * Spleen                 | White Pulp                           | Atrophy                      | Marked                 |
|                          |                                      | Extramedullary Hematopoiesis | Minimal                |
|                          |                                      | Pigment                      | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 56

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 546

**DOSE:** 300 ppm Male

**DISP:** Natural Death

**HISTO:** 1300586

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Stomach, Glandular

Mineral

Mild

\* Testis

Bilateral, Germinal Epith

Degeneration

Minimal

---

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 667

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Epididymis             | * Esophagus                 | * Harderian Gland        | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Mammary Gland             | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland        | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                   | * Stomach, Glandular        | * Trachea                | * Urinary Bladder          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |                        |                            |                     |
|---------------------------|------------------------|----------------------------|---------------------|
| * Bone Marrow             |                        | Leukemia Mononuclear       |                     |
| * Brain                   |                        | Hemorrhage                 | Mild                |
| * Eye                     | Lens                   | Inflammation               | Acute, Minimal      |
|                           | Iris                   | Inflammation               | Acute, Minimal      |
|                           | Antr Chamber           | Inflammation               | Acute, Minimal      |
| * Heart                   |                        | Cardiomyopathy             | Minimal             |
| * Intestine Large, Rectum |                        | Hyperplasia                | Lymphocyte, Minimal |
| * Kidney                  |                        | Developmental Malformation |                     |
|                           |                        | Nephropathy                | Chronicprogr, Mild  |
| * Liver                   |                        | Leukemia Mononuclear       |                     |
| * Lung                    |                        | Leukemia Mononuclear       |                     |
| Lymph Node                | Deep Cervical          | Hemorrhage                 | Moderate            |
|                           | Mediastinal            | Leukemia Mononuclear       |                     |
|                           | Deep Cervical          | Leukemia Mononuclear       |                     |
|                           | Lumbar                 | Leukemia Mononuclear       |                     |
|                           | [ Leukemia Mononuclear | TGLs = 5 - 22 ]            |                     |
|                           | [ Leukemia Mononuclear | TGLs = 4 - 21 ]            |                     |
|                           | [ Leukemia Mononuclear | TGLs = 6 - 20 ]            |                     |
| * Lymph Node, Mandibular  |                        | Leukemia Mononuclear       |                     |
|                           | [ Leukemia Mononuclear | TGLs = 1 - 18 ]            |                     |
| * Lymph Node, Mesenteric  |                        | Leukemia Mononuclear       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 667

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300587

ORGAN AND ACCOUNTABLE SITE STATUS

[ Leukemia Mononuclear TGLs = 2 - 18 ]

* Nose		Inflammation	Suppurative, Marked
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pancreas	Acinus	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 3 - 19 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
		Ulcer	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral, Seminif Tub	Mineral	Minimal
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Brain Hemorrhage

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Harderian Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Prostate
- \* Skin
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Nose
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pancreas
- \* Seminal Vesicle
- \* Trachea

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Eye Iris Inflammation Acute, Minimal
- \* Intestine Large, Rectum Parasite Metazoan
- \* Kidney Infarct Minimal
- Nephropathy Chronicprogr, Mild
- \* Liver Clear Cell Focus
- \* Lung Infiltration Cellular Histiocyte, Minimal
- \* Mammary Gland Adenocarcinoma
- Note: Squamous differentiation present.
- [ Adenocarcinoma TGLs = 1 - 19 ]
- \* Pituitary Gland Pars Distalis Hyperplasia Marked
- \* Spleen Extramedullary Hematopoiesis Mild
- Pigment Mild
- \* Testis Bilateral Edema Minimal
- \* Thymus Atrophy Mild
- \* Thyroid Gland C Cell Adenoma

\* PROTOCOL REQUIRED TISSUE







Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Lung
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Preputial Gland
- \* Seminal Vesicle
- \* Skin
- \* Thyroid Gland
- \* Trachea
- Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                           |                |                               |                    |
|---------------------------|----------------|-------------------------------|--------------------|
| * Heart                   |                | Cardiomyopathy                | Minimal            |
| * Intestine Large, Rectum |                | Parasite Metazoan             |                    |
| * Kidney                  |                | Infarct                       | Minimal            |
|                           |                | Nephropathy                   | Chronicprogr, Mild |
| * Liver                   |                | Clear Cell Focus              |                    |
|                           |                | Necrosis                      | Minimal            |
| * Nose                    | Olfactory Epi  | Accumulation, Hyaline Droplet | Mild               |
| * Pituitary Gland         | Pars Distalis  | Hyperplasia                   | Minimal            |
| * Spleen                  |                | Extramedullary Hematopoiesis  | Mild               |
|                           |                | Pigment                       | Minimal            |
| * Testis                  | Germinal Epith | Degeneration                  | Minimal            |
|                           | Bilateral      | Edema                         | Minimal            |
|                           | Interstit Cell | Hyperplasia                   | Focal, Minimal     |
|                           | Bilateral      | Polyarteritis Nodosa          | Minimal            |
| * Thymus                  |                | Atrophy                       | Minimal            |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Skin
- \* Trachea

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                               |                         |
|-------------------|--|-------------------------------|-------------------------|
| * Adrenal Medulla |  | Hyperplasia                   | Focal, Minimal          |
| * Heart           |  | Cardiomyopathy                | Minimal                 |
| * Kidney          | Papilla                                  | Hemorrhage                    | Mild                    |
|                   |  | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver           |  | Clear Cell Focus              |                         |
|                   | Bile Duct                                | Hyperplasia                   | Minimal                 |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Minimal     |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                         |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                    |
|                   |  | Inflammation                  | Suppurative, Minimal    |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Moderate                |
| * Prostate        | Ventral                                  | Inflammation                  | Chronic Active, Minimal |
| * Spleen          |  | Extramedullary Hematopoiesis  | Minimal                 |
|                   |  | Pigment                       | Minimal                 |
| * Testis          | Bilateral, Germinal Epith                | Degeneration                  | Minimal                 |
|                   | Bilateral                                | Edema                         | Minimal                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 62

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 300 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300592

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | Blood Vessel             | * Bone                     | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Parathyroid Gland       |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Testis                  |
| * Trachea                   | * Urinary Bladder        |                            |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |               |                               |                        |
|-------------------|---------------|-------------------------------|------------------------|
| * Adrenal Medulla |               | Pheochromocytoma Benign       |                        |
| * Bone Marrow     |               | Hypercellularity              | Minimal                |
| * Kidney          |               | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |               | Clear Cell Focus              |                        |
|                   | Bile Duct     | Hyperplasia                   | Minimal                |
| * Lung            |               | Infiltration Cellular         | Histiocyte, Minimal    |
|                   |               | Inflammation                  | Granulomatous, Minimal |
| * Nose            | Olfactory Epi | Accumulation, Hyaline Droplet | Marked                 |
| * Pancreas        |               | Polyarteritis Nodosa          | Minimal                |
| * Pituitary Gland | Pars Distalis | Hyperplasia                   | Moderate               |
| * Spleen          |               | Extramedullary Hematopoiesis  | Minimal                |
|                   |               | Pigment                       | Minimal                |
| * Thymus          |               | Atrophy                       | Mild                   |
| * Thyroid Gland   | C Cell        | Adenoma                       |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 631

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    |
| * Pancreas               | * Parathyroid Gland        | * Preputial Gland         | * Seminal Vesicle           |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           |

MISSING

- |                          |                   |
|--------------------------|-------------------|
| * Lymph Node, Mandibular | * Salivary Glands |
|--------------------------|-------------------|

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                                       |                               |                        |
|-------------------|---------------------------------------|-------------------------------|------------------------|
| * Adrenal Medulla |                                       | Pheochromocytoma Benign       |                        |
| * Bone Marrow     |                                       | Hypercellularity              | Mild                   |
| * Heart           |                                       | Cardiomyopathy                | Minimal                |
| * Kidney          |                                       | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           | Bile Duct                             | Hyperplasia                   | Minimal                |
| * Lung            |                                       | Infiltration Cellular         | Histiocyte, Minimal    |
| * Mammary Gland   |                                       | Histiocytic Sarcoma           |                        |
|                   | [ Histiocytic Sarcoma TGLs = 2 - 19 ] |                               |                        |
| * Nose            | Olfactory Epi                         | Accumulation, Hyaline Droplet | Moderate               |
|                   | Respirat Epith                        | Accumulation, Hyaline Droplet | Minimal                |
| * Pituitary Gland | Pars Distalis                         | Hyperplasia                   | Minimal                |
| * Prostate        | Dorsal, Epithelium, Lateral           | Hyperplasia                   | Moderate               |
| * Skin            | Subcut Tiss                           | Fibroma                       |                        |
|                   | [ Fibroma TGLs = 1 - 18 ]             |                               |                        |
| * Spleen          |                                       | Extramedullary Hematopoiesis  | Mild                   |
|                   |                                       | Pigment                       | Minimal                |
| * Testis          | Germinal Epith                        | Degeneration                  | Minimal                |
| * Thymus          |                                       | Atrophy                       | Marked                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 64

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 631

**DOSE:** 300 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300594

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Adenoma

---

PRIMARY CAUSE OF DEATH

- Mammary Gland Histiocytic Sarcoma

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Pancreas                | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Trachea                 | * Urinary Bladder           |                          |                            |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Heart           |  | Cardiomyopathy                | Minimal                |
|                   |  | Polyarteritis Nodosa          | Minimal                |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |  | Clear Cell Focus              |                        |
|                   | Bile Duct                                | Hyperplasia                   | Minimal                |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild       |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                        |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                   |
| * Pituitary Gland | Pars Distalis                            | Adenoma                       |                        |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                   |
|                   |  | Pigment                       | Mild                   |
| * Testis          | Interstit Cell                           | Hyperplasia                   | Focal, Mild            |
| * Thymus          |  | Atrophy                       | Mild                   |
| * Thyroid Gland   | C Cell                                   | Hyperplasia                   | Mild                   |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Parathyroid Gland       | * Preputial Gland           | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                                 |                               |                    |
|-------------------|---------------------------------|-------------------------------|--------------------|
| * Eye             | Cornea                          | Inflammation                  | Acute, Mild        |
| * Kidney          |                                 | Nephropathy                   | Chronicprogr, Mild |
| * Liver           |                                 | Clear Cell Focus              |                    |
|                   | Bile Duct                       | Hyperplasia                   | Minimal            |
| * Lung            |                                 | Infiltration Cellular         | Histiocyte, Mild   |
| * Nose            | Olfactory Epi                   | Accumulation, Hyaline Droplet | Mild               |
| * Pancreas        | Acinus                          | Hyperplasia                   | Marked             |
|                   | [ Hyperplasia TGLs = 2,3 - 18 ] |                               |                    |
| * Pituitary Gland | Pars Distalis                   | Hyperplasia                   | Mild               |
| * Prostate        | Epithelium, Ventral             | Hyperplasia                   | Minimal            |
| * Spleen          |                                 | Extramedullary Hematopoiesis  | Minimal            |
|                   |                                 | Pigment                       | Mild               |
| * Testis          | Germinal Epith                  | Degeneration                  | Minimal            |
|                   | Bilateral                       | Edema                         | Minimal            |
| * Thymus          |                                 | Atrophy                       | Moderate           |
| * Thyroid Gland   | C Cell                          | Adenoma                       |                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Bone Marrow		Hypercellularity	Mild
* Epididymis	Bilateral, Duct Bilateral	Exfoliated Germ Cell Hypospermia	Mild Moderate
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus Extramedullary Hematopoiesis Mixed Cell Focus	Minimal
	[ Mixed Cell Focus TGLs = 3 - 12 ]		
* Lung		Inflammation	Acute, Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Pancreas	Acinus Acinus	Adenoma Hyperplasia	Multiple Moderate
	[ Adenoma TGLs = 4 - 19 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 2 - 20 ]		
* Spleen		Extramedullary Hematopoiesis Pigment	Moderate Minimal
* Testis	Germinal Epith	Degeneration	Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 67

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 300 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300597

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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		Bilateral, Seminif Tub	Edema	Marked
			Mineral	Minimal
	[ Degeneration	TGLs = 5 - 17 ]		
* Thymus			Atrophy	Mild
* Thyroid Gland		C Cell	Adenoma	

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Brain		Gliosis	Mild
* Heart		Cardiomyopathy	Mild
	Valve	Fibrosis	Minimal
* Kidney	Epithelium, Papilla	Hyperplasia	Minimal
		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Pigment	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Prostate	Dorsal, Lateral	Inflammation	Chronic Active, Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Di(2-ethylhexyl) Phthalate  
CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
Time Report Requested: 13:48:37  
First Dose M/F: 06/27/11 / 06/28/11  
Lab: BAT

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 708

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Mammary Gland	* Preputial Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testis
* Trachea			

MISSING

* Parathyroid Gland	* Thymus
---------------------	----------

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Chronic, Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Minimal
	Pelvis	Inflammation	Acute, Mild
		Mineral	Mild
		Nephropathy	Chronicprogr, Minimal
	[ Inflammation TGLs = 3 - 8 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Hypertrophy	Minimal
* Prostate	Dorsal, Lateral	Inflammation	Suppurative, Marked
	Ventral	Inflammation	Suppurative, Marked
	[ Inflammation TGLs = 1 - 18 ]		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 69

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 708

**DOSE:** 300 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300599

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Seminal Vesicle	Bilateral	Inflammation	Suppurative, Mild
* Spleen	White Pulp	Atrophy	Mild
		Extramedullary Hematopoiesis	Minimal
		Pigment	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Hemorrhage	Minimal
[ Hemorrhage TGLs = 2 - 8 ]			

**PRIMARY CAUSE OF DEATH** - Prostate Dorsal Lateral Inflammation

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

**ANIMAL ID:** 70

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 663

**DOSE:** 300 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300600

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Testis
* Trachea	* Urinary Bladder		

**MISSING**

\* Parathyroid Gland

**PRESENT BUT NOT EXAMINED**

Testes

**OBSERVATIONS**

* Bone Marrow		Hypercellularity	Marked
* Eye	Retina	Dysplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Hyperplasia	Lymphocyte, Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Extramedullary Hematopoiesis	Minimal
		Fibrosarcoma	Metastatic (Skin)
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Preputial Gland		Fibrosarcoma	Metastatic (Skin)
* Skin	Subcut Tiss	Fibrosarcoma	
	[ Fibrosarcoma TGLs = 1 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Moderate
* Stomach, Glandular		Mineral	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 70

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 663

**DOSE:** 300 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300600

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Seminal Vesicle
- \* Trachea
- Blood Vessel
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Preputial Gland
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Prostate
- \* Stomach, Forestomach
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Stomach, Glandular

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Epididymis
- \* Kidney
- \* Liver
- \* Lung
- \* Lymph Node, Mandibular  
[ Inflammation TGLs = 1 - 18 ]
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Testis
- Bilateral, Duct
- Bilateral
- Olfactory Epi
- Acinus
- Pars Distalis
- Pars Distalis
- Bilateral, Germinal Epith
- Hyperplasia
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Infarct
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Focal, Minimal
- Mild
- Mild
- Marked
- Minimal
- Chronicprogr, Mild
- Histiocyte, Minimal
- Suppurative, Marked
- Mild
- Mild
- Minimal
- Mild
- Minimal
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 71

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 300 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300601

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Bilateral	Edema	Moderate
		Inflammation	Granulomatous, Mild
	Bilateral, Seminif Tub	Mineral	Minimal
	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

---

Experiment Number: 10188 - 02  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Di(2-ethylhexyl) Phthalate  
CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
Time Report Requested: 13:48:37  
First Dose M/F: 06/27/11 / 06/28/11  
Lab: BAT

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300602

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**PRESENT BUT NOT EXAMINED**

Testes

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Epididymis	Bilateral	Hypospermia	Marked
* Eye	Retina	Degeneration	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Testis	Germinal Epith	Degeneration	Moderate
		Edema	Moderate
	Bilateral, Seminif Tub	Mineral	Mild
	[ Degeneration TGLs = 1 - 16 ]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 72

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 300 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300602

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

C Cell

Hyperplasia

Moderate

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 673

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Pancreas               |
| * Parathyroid Gland        | * Preputial Gland         | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |                 |                               |                          |
|---------------------------|-----------------|-------------------------------|--------------------------|
| * Kidney                  |                 | Nephropathy                   | Chronicprogr, Minimal    |
| * Nose                    | Olfactory Epi   | Accumulation, Hyaline Droplet | Minimal                  |
|                           |                 | Inflammation                  | Suppurative, Minimal     |
| * Pituitary Gland         | Pars Distalis   | Adenoma                       |                          |
| [ Adenoma TGLs = 1 - 11 ] |                 |                               |                          |
| * Prostate                | Dorsal, Lateral | Inflammation                  | Chronic Active, Moderate |
|                           | Ventral         | Inflammation                  | Chronic Active, Moderate |
| * Spleen                  |                 | Pigment                       | Moderate                 |
| * Testis                  | Bilateral       | Edema                         | Minimal                  |
| * Thymus                  |                 | Atrophy                       | Moderate                 |
| * Thyroid Gland           | C Cell          | Hyperplasia                   | Minimal                  |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| Blood Vessel                | * Bone                   | * Brain                    | * Epididymis             |
| * Esophagus                 | * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Preputial Gland        |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Stomach, Forestomach   |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder        |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                           |                   |                               |                        |
|---------------------------|-------------------|-------------------------------|------------------------|
| * Adrenal Cortex          |                   | Hyperplasia                   | Focal, Minimal         |
| * Adrenal Medulla         |                   | Hyperplasia                   | Focal, Minimal         |
| * Bone Marrow             |                   | Hypercellularity              | Minimal                |
| * Eye                     | Bilateral, Cornea | Inflammation                  | Acute, Moderate        |
| * Heart                   |                   | Cardiomyopathy                | Minimal                |
| * Intestine Large, Rectum |                   | Parasite Metazoan             |                        |
| * Kidney                  |                   | Nephropathy                   | Chronicprogr, Moderate |
| * Liver                   |                   | Clear Cell Focus              |                        |
| * Lung                    |                   | Infiltration Cellular         | Histiocyte, Mild       |
| * Nose                    | Olfactory Epi     | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas                | Acinus            | Atrophy                       | Moderate               |
|                           |                   | Polyarteritis Nodosa          | Mild                   |
| * Pituitary Gland         | Pars Distalis     | Hyperplasia                   | Minimal                |
| * Skin                    | Subcut Tiss       | Fibrolipoma                   |                        |
|                           | Subcut Tiss       | Fibroma                       |                        |
|                           |                   | Keratoacanthoma               |                        |

[ Fibrolipoma TGLs = 2 - 19 ]

[ Fibroma TGLs = 1 - 18 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 76

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 300 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300606

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Keratoacanthoma TGLs = 3 - 20 ]

\* Spleen

Extramedullary Hematopoiesis

Mild

Pigment

Mild

\* Testis

Germinal Epith

Degeneration

Minimal

Bilateral

Polyarteritis Nodosa

Minimal

\* Thymus

Atrophy

Moderate

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                   |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus              |
| * Eye                       | * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland          |
| * Parathyroid Gland         | * Preputial Gland        | * Prostate                 | * Salivary Glands        |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular     |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |                           |                              |                        |
|---------------------------|---------------------------|------------------------------|------------------------|
| * Heart                   |                           | Cardiomyopathy               | Minimal                |
| * Intestine Large, Rectum |                           | Parasite Metazoan            |                        |
| * Kidney                  |                           | Nephropathy                  | Chronicprogr, Moderate |
| * Liver                   |                           | Clear Cell Focus             |                        |
| * Nose                    |                           | Inflammation                 | Suppurative, Minimal   |
| * Pancreas                | Acinus                    | Adenoma                      | Multiple               |
|                           | Acinus                    | Hyperplasia                  | Marked                 |
|                           | [ Adenoma TGLs = 1 - 18 ] |                              |                        |
| * Pituitary Gland         | Pars Distalis             | Hyperplasia                  | Mild                   |
| * Spleen                  |                           | Extramedullary Hematopoiesis | Mild                   |
|                           |                           | Pigment                      | Mild                   |
| * Testis                  | Germinal Epith            | Degeneration                 | Minimal                |
|                           |                           | Edema                        | Minimal                |
| * Thymus                  |                           | Atrophy                      | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Seminal Vesicle
- \* Trachea

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla
- \* Heart
- \* Kidney
- [ Adenoma, Amphophilic Vacuolar TGLs = 3 - 20 ]
- \* Liver
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Skin
- [ Fibroma TGLs = 1,2 - 18+19 ]
- \* Spleen
- \* Testis
- Hyperplasia
- Cardiomyopathy
- Adenoma, Amphophilic Vacuolar Nephropathy
- Renal Tubule
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Fibroma
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Polyarteritis Nodosa
- Focal, Minimal
- Minimal
- Chronicprogr, Mild
- Mild
- Histiocyte, Minimal
- Minimal
- Multiple
- Mild
- Mild
- Minimal
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 78

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 300 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300608

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                   |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus              |
| * Eye                       | * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland          |
| * Nose                      | * Pancreas               | * Preputial Gland          | * Prostate               |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach   |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder        |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                           |                           |                              |                    |
|---------------------------|---------------------------|------------------------------|--------------------|
| * Heart                   |                           | Cardiomyopathy               | Minimal            |
| * Intestine Large, Rectum |                           | Parasite Metazoan            |                    |
| * Kidney                  |                           | Nephropathy                  | Chronicprogr, Mild |
| * Liver                   |                           | Clear Cell Focus             |                    |
|                           | Bile Duct                 | Hyperplasia                  | Minimal            |
| * Pituitary Gland         | Pars Distalis             | Hyperplasia                  | Moderate           |
| * Spleen                  |                           | Extramedullary Hematopoiesis | Mild               |
|                           |                           | Pigment                      | Minimal            |
| * Testis                  | Bilateral, Germinal Epith | Degeneration                 | Mild               |
|                           | Bilateral                 | Edema                        | Minimal            |
| * Thymus                  |                           | Atrophy                      | Moderate           |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | Blood Vessel             | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Pancreas                 | * Parathyroid Gland       |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

MISSING

- \* Thymus

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                      |   |                               |                    |
|----------------------|---|-------------------------------|--------------------|
| * Adrenal Medulla    |   | Hyperplasia                   | Focal, Mild        |
|                      |   | Pheochromocytoma Benign       |                    |
| * Heart              |   | Cardiomyopathy                | Minimal            |
| * Islets, Pancreatic |   | Hyperplasia                   | Mild               |
| * Kidney             |   | Nephropathy                   | Chronicprogr, Mild |
| * Liver              |   | Clear Cell Focus              |                    |
|                      | Bile Duct                               | Hyperplasia                   | Minimal            |
| * Lung               |   | Infiltration Cellular         | Histiocyte, Mild   |
|                      | [ Infiltration Cellular TGLs = 1- 6+7 ] |                               |                    |
| * Nose               | Olfactory Epi                           | Accumulation, Hyaline Droplet | Moderate           |
| * Pituitary Gland    | Pars Distalis                           | Hyperplasia                   | Minimal            |
|                      | Pars Distalis                           | Hypertrophy                   | Minimal            |
| * Spleen             |   | Extramedullary Hematopoiesis  | Mild               |
|                      |   | Pigment                       | Minimal            |
| * Testis             | Germinal Epith                          | Degeneration                  | Minimal            |
|                      | Bilateral                               | Edema                         | Mild               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 80

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 300 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300610

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Interstit Cell

Hyperplasia

Focal, Moderate

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Bone Marrow               |
| * Brain                  | * Epididymis               | * Esophagus               | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Parathyroid Gland       | * Pituitary Gland           |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                  |               |                               |                         |
|------------------|---------------|-------------------------------|-------------------------|
| * Adrenal Cortex |               | Hyperplasia                   | Focal, Minimal          |
| * Eye            | Retina        | Hyperplasia                   | Mild                    |
| * Heart          |               | Cardiomyopathy                | Minimal                 |
| * Kidney         |               | Nephropathy                   | Chronicprogr, Mild      |
| * Liver          |               | Clear Cell Focus              |                         |
|                  | Bile Duct     | Hyperplasia                   | Minimal                 |
| * Lung           |               | Infiltration Cellular         | Histiocyte, Minimal     |
|                  |               | Inflammation                  | Chronic Active, Minimal |
| * Nose           | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal                 |
| * Pancreas       | Acinus        | Hyperplasia                   | Minimal                 |
| * Spleen         |               | Extramedullary Hematopoiesis  | Mild                    |
|                  |               | Pigment                       | Minimal                 |
| * Testis         | Bilateral     | Edema                         | Minimal                 |
| * Thymus         |               | Atrophy                       | Mild                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
		Pheochromocytoma Benign	
* Kidney		Nephropathy	Chronicprogr, Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas	Acinus	Adenoma	
	Acinus	Hyperplasia	Marked
	[ Adenoma TGLs = 1 - 18 ]		
	[ Hyperplasia TGLs = 2 - 19 ]		
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Testis	Bilateral	Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Urinary Bladder
- Blood Vessel
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Prostate
- \* Stomach, Forestomach
- \* Bone
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Glandular
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- \* Thyroid Gland
- Hyperplasia
- Hypercellularity
- Glioma Malignant
- Infarct
- Nephropathy
- Clear Cell Focus
- Degeneration
- Bile Duct
- Hyperplasia
- Inflammation
- Olfactory Epi
- Pars Distalis
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Atrophy
- Adenoma
- Focal, Minimal
- Minimal
- Minimal
- Chronicprogr, Moderate
- Cystic, Minimal
- Mild
- Granulomatous, Minimal
- Minimal
- Marked
- Mild
- Mild
- Minimal
- Mild

[ Hyperplasia TGLs = 1 - 11 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                   |                |                               |                        |
|-------------------|----------------|-------------------------------|------------------------|
| * Bone Marrow     |                | Hypercellularity              | Minimal                |
| * Heart           |                | Cardiomyopathy                | Mild                   |
| * Kidney          |                | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |                | Clear Cell Focus              |                        |
|                   | Bile Duct      | Hyperplasia                   | Minimal                |
| * Nose            | Olfactory Epi  | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas        |                | Polyarteritis Nodosa          | Minimal                |
| * Pituitary Gland | Pars Distalis  | Hypertrophy                   | Minimal                |
| * Seminal Vesicle |                | Inflammation                  | Acute, Minimal         |
| * Spleen          |                | Extramedullary Hematopoiesis  | Mild                   |
|                   |                | Pigment                       | Mild                   |
| * Testis          | Germinal Epith | Degeneration                  | Minimal                |
|                   | Bilateral      | Edema                         | Minimal                |
|                   | Bilateral      | Polyarteritis Nodosa          | Minimal                |
| * Thymus          |                | Atrophy                       | Moderate               |
| * Thyroid Gland   | C Cell         | Carcinoma                     |                        |
|                   | C Cell         | Hyperplasia                   | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 708

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Esophagus
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Liver
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Preputial Gland
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Prostate
- \* Trachea
- \* Thyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- Blood Vessel
  - Dilation Moderate
  - Mineral Moderate
- [ Dilation TGLs = 4 - 10 ]
- \* Epididymis
  - Bilateral, Duct Exfoliated Germ Cell Moderate
  - Bilateral Hypospermia Moderate
- \* Eye
  - Bilateral, Cornea Inflammation Acute, Mild
  - Antr Chamber, Bilateral Inflammation Acute, Mild
- \* Heart
  - Cardiomyopathy Mild
  - Mineral Mild
- \* Kidney
  - Artery Mineral Mild
  - Renal Tubule Cyst
  - Epithelium, Papilla Hyperplasia Mild
  - Nephropathy Chronicprogr, Marked
- [ Cyst TGLs = 3 - 19 ]
- [ Nephropathy TGLs = 2 - 18+19 ]
- \* Lung
  - Infiltration Cellular Histiocyte, Minimal
  - Inflammation Acute, Minimal
  - Mineral Mild
- Mesentery
  - Artery Mineral Minimal
  - Artery Mineral Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 708

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300615

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Suppurative, Minimal
* Pancreas		Polyarteritis Nodosa	Mild
* Parathyroid Gland	Bilateral	Hyperplasia	Diffuse, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen	White Pulp	Atrophy	Marked
		Pigment	Moderate
* Stomach, Forestomach		Mineral	Minimal
* Stomach, Glandular		Mineral	Moderate
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Polyarteritis Nodosa	Mild
	[ Degeneration TGLs = 1 - 16+17 ]		
* Thymus		Atrophy	Marked
* Urinary Bladder	Artery	Mineral	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Epididymis             | * Esophagus                | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                |
| * Parathyroid Gland         | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                           |                               |                       |
|-------------------|---------------------------|-------------------------------|-----------------------|
| * Bone Marrow     |                           | Congestion                    | Mild                  |
| * Eye             | Cornea                    | Inflammation                  | Acute, Minimal        |
| * Kidney          |                           | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |                           | Clear Cell Focus              |                       |
| * Lung            |                           | Infiltration Cellular         | Histiocyte, Mild      |
| * Nose            | Olfactory Epi             | Accumulation, Hyaline Droplet | Mild                  |
| * Pituitary Gland | Pars Distalis             | Hyperplasia                   | Mild                  |
| * Skin            | Subcut Tiss               | Fibroma                       |                       |
|                   | [ Fibroma TGLs = 1 - 18 ] |                               |                       |
| * Spleen          |                           | Extramedullary Hematopoiesis  | Mild                  |
|                   |                           | Pigment                       | Mild                  |
| * Testis          | Bilateral                 | Polyarteritis Nodosa          | Minimal               |
| * Thymus          |                           | Atrophy                       | Mild                  |
| * Thyroid Gland   | C Cell                    | Adenoma                       |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Pancreas                  | * Parathyroid Gland      | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Trachea                | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                               |                    |
|-------------------|--|-------------------------------|--------------------|
| * Bone Marrow     |  | Histiocytic Sarcoma           |                    |
| * Heart           |  | Cardiomyopathy                | Minimal            |
| * Kidney          |  | Infarct                       | Minimal            |
|                   |  | Nephropathy                   | Chronicprogr, Mild |
| * Liver           |  | Clear Cell Focus              |                    |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate           |
| Oral Mucosa       |  | Squamous Cell Papilloma       |                    |
|                   | [ Squamous Cell Papilloma TGLs = 2 - 1 ] |                               |                    |
| * Pituitary Gland | Pars Distalis                            | Adenoma                       |                    |
|                   | [ Adenoma TGLs = 1 - 11 ]                |                               |                    |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild               |
|                   |  | Pigment                       | Minimal            |
| * Testis          | Interstit Cell                           | Adenoma                       |                    |
|                   | Bilateral                                | Polyarteritis Nodosa          | Minimal            |
| * Thymus          |  | Atrophy                       | Mild               |
| * Thyroid Gland   | C Cell                                   | Adenoma                       |                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | Blood Vessel             | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Pituitary Gland         |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                  |                           |                               |                        |
|------------------|---------------------------|-------------------------------|------------------------|
| * Adrenal Cortex |                           | Hypertrophy                   | Focal, Mild            |
| * Heart          |                           | Cardiomyopathy                | Minimal                |
| * Kidney         |                           | Infarct                       | Minimal                |
|                  |                           | Nephropathy                   | Chronicprogr, Mild     |
| * Liver          |                           | Clear Cell Focus              |                        |
| * Lung           |                           | Infiltration Cellular         | Histiocyte, Minimal    |
|                  |                           | Inflammation                  | Granulomatous, Minimal |
| * Nose           | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas       |                           | Basophilic Focus              |                        |
| * Spleen         |                           | Extramedullary Hematopoiesis  | Mild                   |
|                  |                           | Pigment                       | Minimal                |
| * Testis         | Bilateral, Germinal Epith | Degeneration                  | Minimal                |
|                  |                           | Edema                         | Minimal                |
| * Thymus         |                           | Atrophy                       | Moderate               |
| * Thyroid Gland  | C Cell                    | Adenoma                       |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Trachea                 | * Urinary Bladder           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                      |                                |                               |                        |
|----------------------|--------------------------------|-------------------------------|------------------------|
| * Adrenal Medulla    |                                | Hyperplasia                   | Focal, Mild            |
| * Bone Marrow        |                                | Hypercellularity              | Minimal                |
| * Heart              |                                | Cardiomyopathy                | Minimal                |
| * Kidney             |                                | Nephropathy                   | Chronicprogr, Moderate |
| * Liver              |                                | Clear Cell Focus              |                        |
| * Lung               | Bile Duct                      | Hyperplasia                   | Minimal                |
|                      |                                | Infiltration Cellular         | Histiocyte, Mild       |
|                      |                                | Inflammation                  | Granulomatous, Minimal |
| * Nose               | Olfactory Epi                  | Accumulation, Hyaline Droplet | Moderate               |
| * Preputial Gland    |                                | Inflammation                  | Suppurative, Marked    |
|                      |                                | Squamous Cell Papilloma       |                        |
|                      | [ Inflammation TGLs = 1 - 18 ] |                               |                        |
| * Spleen             |                                | Extramedullary Hematopoiesis  | Mild                   |
|                      |                                | Pigment                       | Mild                   |
| * Stomach, Glandular |                                | Erosion                       | Mild                   |
|                      |                                | Inflammation                  | Acute, Mild            |
| * Testis             | Bilateral                      | Edema                         | Minimal                |
| * Thymus             |                                | Atrophy                       | Moderate               |
| * Thyroid Gland      | C Cell                         | Hyperplasia                   | Mild                   |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 359

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Testis
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Lymph Node, Mandibular

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Lymph Node, Mesenteric
  - \* Pituitary Gland
  - \* Skin
  - \* Spleen
  - \* Stomach, Forestomach
  - \* Thymus
- [ Inflammation TGLs = 1 - 18 ]
- [ Atrophy TGLs = 2 - 6 ]

Bilateral, Duct

Pars Distalis

White Pulp

Hypercellularity

Exfoliated Germ Cell

Infarct

Nephropathy

Extramedullary Hematopoiesis

Infiltration Cellular

Atrophy

Hypertrophy

Inflammation

Moderate

Minimal

Minimal

Chronicprogr, Minimal

Minimal

Histiocyte, Minimal

Minimal

Mild

Chronic, Marked

Mild

Moderate

Chronic Active, Minimal

Marked

PRIMARY CAUSE OF DEATH - Skin Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Islets, Pancreatic  
[ Adenoma TGLs = 1-18 ]
- \* Kidney
- \* Liver
- \* Lung  
[ Infiltration Cellular TGLs = 2 - 6+19 ]
- \* Nose
- \* Pancreas  
[ Adenoma TGLs = 1 - 9 ]
- \* Spleen
- \* Testis
- \* Thymus
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Adenoma
- Infarct
- Nephropathy
- Clear Cell Focus
- Bile Duct
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Olfactory Epi
- Acinus
- Accumulation, Hyaline Droplet
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Polyarteritis Nodosa
- Atrophy
- Focal, Mild
- Minimal
- Minimal
- Minimal
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Minimal
- Granulomatous, Minimal
- Minimal
- Minimal
- Mild
- Minimal
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Spleen
- \* Trachea
- Blood Vessel
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pancreas
- \* Seminal Vesicle
- \* Thyroid Gland

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla
- \* Intestine Small, Jejunum  
[ Adenocarcinoma TGLs = 2 - 20 ]
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Skin  
[ Fibroma TGLs = 1 - 19 ]
- \* Testis
- \* Thymus
- Hyperplasia
- Adenocarcinoma
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Hyperplasia
- Fibroma
- Degeneration
- Atrophy
- Ectopic Thyroid
- Focal, Mild
- Chronicprogr, Mild
- Histiocyte, Mild
- Mild
- Mild
- Minimal
- Mild
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 595

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Pancreas                  |
| * Parathyroid Gland      | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Testis                 | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |   |                               |                        |
|-------------------|---|-------------------------------|------------------------|
| * Bone Marrow     |   | Hypercellularity              | Minimal                |
| * Brain           |   | Hemorrhage                    | Minimal                |
|                   |   | Inflammation                  | Acute, Mild            |
| * Heart           |   | Inflammation                  | Acute, Marked          |
|                   |   | Necrosis                      | Mild                   |
|                   |   | Polyarteritis Nodosa          | Minimal                |
|                   | Note: Septic thrombi are present within the heart including along the endocardium of the right ventricle. |                               |                        |
| * Kidney          |   | Inflammation                  | Acute, Minimal         |
|                   |   | Nephropathy                   | Chronicprogr, Moderate |
| * Lung            |   | Polyarteritis Nodosa          | Marked                 |
|                   |   | Thrombus                      | Marked                 |
| * Nose            | Olfactory Epi   | Accumulation, Hyaline Droplet | Minimal                |
| * Pituitary Gland | Pars Distalis   | Hyperplasia                   | Minimal                |
| * Spleen          | White Pulp  | Atrophy                       | Mild                   |
|                   |   | Extramedullary Hematopoiesis  | Mild                   |
|                   |   | Pigment                       | Minimal                |
| * Thymus          |   | Atrophy                       | Marked                 |

PRIMARY CAUSE OF DEATH - Heart Inflammation

CONTRIBUTORY CAUSE OF DEATH - Lung Thrombus

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 577

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
  - \* Kidney
  - \* Liver
  - \* Skin
  - \* Spleen
  - \* Testis
  - \* Thymus
  - \* Thyroid Gland
- Renal Tubule
- Subcut Tiss
- [ Cyst Epithelial Inclusion TGLs = 3 - 19 ]
- [ Fibrosarcoma TGLs = 2 - 18 ]
- [ Extramedullary Hematopoiesis TGLs = 1 - 8 ]
- [ Edema TGLs = 4 - 16+17 ]
- C Cell
- Hypercellularity
- Accumulation, Hyaline Droplet
- Nephropathy
- Extramedullary Hematopoiesis
- Cyst Epithelial Inclusion
- Fibrosarcoma
- Inflammation
- Extramedullary Hematopoiesis
- Degeneration
- Edema
- Atrophy
- Adenoma
- Marked
- Minimal
- Chronicprogr, Minimal
- Minimal
- Chronic Active, Marked
- Moderate
- Mild
- Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 542

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung                    | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nose                     |
| * Pancreas                | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testis                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

MISSING

- |                 |                     |        |
|-----------------|---------------------|--------|
| * Mammary Gland | * Parathyroid Gland | * Skin |
|-----------------|---------------------|--------|

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                      |            |                              |                       |
|----------------------|------------|------------------------------|-----------------------|
| * Brain              |            | Necrosis                     | Moderate              |
| * Islets, Pancreatic |            | Hyperplasia                  | Mild                  |
| * Kidney             |            | Nephropathy                  | Chronicprogr, Minimal |
| * Liver              |            | Necrosis                     | Moderate              |
| * Spleen             | White Pulp | Atrophy                      | Mild                  |
|                      |            | Extramedullary Hematopoiesis | Minimal               |
|                      |            | Pigment                      | Moderate              |
| * Thymus             |            | Atrophy                      | Marked                |

PRIMARY CAUSE OF DEATH

- Brain Necrosis

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel             | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Pancreas                  |
| * Parathyroid Gland      | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Adrenal Cortex  |  | Hyperplasia                   | Focal, Minimal         |
| * Adrenal Medulla |  | Hyperplasia                   | Focal, Minimal         |
|                   | [ Pheochromocytoma Malignant TGLs = 2 - 11 ] | Pheochromocytoma Malignant    |                        |
| * Heart           |  | Cardiomyopathy                | Mild                   |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Moderate |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild       |
|                   | [ Infiltration Cellular TGLs = 1 - 6 ]       |                               |                        |
| * Nose            | Olfactory Epi                                | Accumulation, Hyaline Droplet | Mild                   |
| * Pituitary Gland | Pars Distalis                                | Hyperplasia                   | Marked                 |
| * Spleen          |  | Extramedullary Hematopoiesis  | Minimal                |
|                   |  | Pigment                       | Minimal                |
| * Testis          | Bilateral                                    | Polyarteritis Nodosa          | Mild                   |
| * Thymus          |  | Atrophy                       | Moderate               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland
- Blood Vessel
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Seminal Vesicle
- \* Trachea
- \* Bone
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Prostate
- \* Stomach, Glandular

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Epididymis
- \* Kidney
- [ Cyst TGLs = 6 - 23 ]
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- [ Adenoma TGLs = 1,2,3,4 - 18+19+20+21 ]
- \* Pituitary Gland
- \* Skin
- Bilateral
- Renal Tubule
- Bile Duct
- Olfactory Epi
- Acinus
- Pars Distalis
- Hyperplasia
- Hypercellularity
- Polyarteritis Nodosa
- Cyst
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Inflammation
- Adenoma
- Hyperplasia
- Inflammation
- Ulcer
- Focal, Minimal
- Mild
- Minimal
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Minimal
- Granulomatous, Minimal
- Mild
- Suppurative, Minimal
- Multiple
- Mild
- Chronic Active, Moderate
- Moderate

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 97

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 300 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300627

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Ulcer TGLs = 5 - 22 ]

\* Spleen

Extramedullary Hematopoiesis

Mild

Pigment

Minimal

\* Testis

Bilateral

Edema

Minimal

\* Thymus

Atrophy

Moderate

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Pancreas                  | * Parathyroid Gland      | * Preputial Gland          |
| * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Trachea                 | * Urinary Bladder           |                          |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                             |   |                                   |
|-------------------|-----------------------------|---|-----------------------------------|
| * Heart           |                             | Cardiomyopathy                          | Mild                              |
| * Kidney          | Epithelium, Papilla         | Hyperplasia<br>Nephropathy              | Minimal<br>Chronicprogr, Moderate |
| * Liver           |                             | Clear Cell Focus                        |                                   |
| * Nose            | Olfactory Epi               | Accumulation, Hyaline Droplet           | Minimal                           |
| * Pituitary Gland | Pars Distalis               | Hyperplasia                             | Moderate                          |
| * Prostate        | Dorsal, Epithelium, Lateral | Hyperplasia                             | Minimal                           |
| * Skin            |                             | Inflammation                            | Suppurative, Marked               |
| * Spleen          |                             | Extramedullary Hematopoiesis<br>Pigment | Mild<br>Minimal                   |
| * Testis          | Bilateral, Germinal Epith   | Degeneration<br>Edema                   | Minimal<br>Minimal                |
|                   | Bilateral                   | Polyarteritis Nodosa                    | Minimal                           |
| * Thymus          |                             | Atrophy                                 | Mild                              |
| * Thyroid Gland   | C Cell                      | Adenoma                                 |                                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Parathyroid Gland       |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |               |                               |                     |
|---------------------------|---------------|-------------------------------|---------------------|
| * Adrenal Cortex          |               | Hypertrophy                   | Focal, Minimal      |
| Blood Vessel              |               | Mineral                       | Minimal             |
| * Kidney                  |               | Nephropathy                   | Chronicprogr, Mild  |
| * Liver                   |               | Clear Cell Focus              |                     |
| * Lung                    |               | Infiltration Cellular         | Histiocyte, Minimal |
| * Nose                    | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate            |
| * Pancreas                | Acinus        | Hyperplasia                   | Minimal             |
| * Pituitary Gland         | Pars Distalis | Hyperplasia                   | Minimal             |
| * Skin                    | Subcut Tiss   | Fibroma                       |                     |
| [ Fibroma TGLs = 1 - 18 ] |               |                               |                     |
| * Spleen                  |               | Extramedullary Hematopoiesis  | Mild                |
|                           |               | Pigment                       | Minimal             |
| * Testis                  |               | Edema                         | Minimal             |
| * Thymus                  |               | Atrophy                       | Mild                |
| * Thyroid Gland           | C Cell        | Adenoma                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 690

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300630

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | Blood Vessel                | * Bone                   | * Bone Marrow              |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Liver                   | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Pancreas                  | * Parathyroid Gland      | * Preputial Gland          |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Stomach, Glandular       |
| * Testis                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |               |                               |                        |
|---------------------------|---------------|-------------------------------|------------------------|
| * Adrenal Medulla         |               | Hyperplasia                   | Focal, Marked          |
| * Islets, Pancreatic      |               | Adenoma                       |                        |
| [ Adenoma TGLs = 1 - 18 ] |               |                               |                        |
| * Kidney                  |               | Nephropathy                   | Chronicprogr, Minimal  |
| * Nose                    | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal                |
| * Pituitary Gland         | Pars Distalis | Adenoma                       |                        |
| [ Adenoma TGLs = 2 - 11 ] |               |                               |                        |
| * Prostate                | Ventral       | Inflammation                  | Chronic Active, Marked |
| * Spleen                  |               | Extramedullary Hematopoiesis  | Minimal                |
|                           |               | Pigment                       | Mild                   |
| * Stomach, Forestomach    | Epithelium    | Hyperplasia                   | Mild                   |
| * Thymus                  |               | Atrophy                       | Marked                 |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Stomach, Forestomach     | * Stomach, Glandular      | * Testis                    |
| * Trachea                | * Urinary Bladder          |                           |                             |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                      |  |                               |                         |
|----------------------|--|-------------------------------|-------------------------|
| * Adrenal Medulla    |  | Hyperplasia                   | Marked                  |
| * Bone Marrow        |  | Hypercellularity              | Mild                    |
| * Heart              |  | Cardiomyopathy                | Minimal                 |
| * Islets, Pancreatic |  | Hyperplasia                   | Marked                  |
| * Kidney             |  | Infarct                       | Minimal                 |
|                      |  | Nephropathy                   | Chronicprogr, Mild      |
| * Liver              |  | Clear Cell Focus              |                         |
|                      |  | Extramedullary Hematopoiesis  | Minimal                 |
|                      |  | Hepatocholangiocarcinoma      |                         |
|                      |  | Pigment                       | Minimal                 |
|                      | [ Hepatocholangiocarcinoma TGLs = 3 - 19 ] |                               |                         |
| * Lung               |  | Infiltration Cellular         | Histiocyte, Mild        |
|                      |  | Inflammation                  | Chronic Active, Minimal |
|                      | [ Infiltration Cellular TGLs = 5 - 6+7 ]   |                               |                         |
| * Nose               | Olfactory Epi                              | Accumulation, Hyaline Droplet | Moderate                |
| * Pancreas           | Acinus                                     | Adenoma                       |                         |
|                      | Acinus                                     | Hyperplasia                   | Marked                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300631

ORGAN AND ACCOUNTABLE SITE STATUS

[ Hyperplasia TGLs = 6 - 21 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	Subcut Tiss	Fibrosarcoma	
[ Fibrosarcoma TGLs = 1 - 20 ]			
* Spleen		Extramedullary Hematopoiesis Hemangiosarcoma	Moderate
[ Hemangiosarcoma TGLs = 2 - 18 ]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Marked

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
	[ Pheochromocytoma Benign TGLs = 1 - 18 ]		
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Extramedullary Hematopoiesis	Minimal
	Bile Duct	Hyperplasia	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
		Inflammation	Acute, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Interstit Cell	Hyperplasia	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 102

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300632

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus	Bilateral	Polyarteritis Nodosa	Minimal
* Thyroid Gland	C Cell	Atrophy	Mild
[ Carcinoma TGLs = 2 - 11 ]		Carcinoma	

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel             | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas                | * Parathyroid Gland         |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |               |                               |                       |
|-------------------|---------------|-------------------------------|-----------------------|
| * Adrenal Cortex  |               | Hypertrophy                   | Focal, Mild           |
| * Adrenal Medulla |               | Hyperplasia                   | Focal, Mild           |
| * Heart           |               | Cardiomyopathy                | Minimal               |
| * Kidney          |               | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |               | Clear Cell Focus              |                       |
|                   | Bile Duct     | Hyperplasia                   | Mild                  |
| * Mammary Gland   |               | Fibroadenoma                  |                       |
| * Nose            | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal               |
|                   |               | Inflammation                  | Acute, Minimal        |
| * Pituitary Gland | Pars Distalis | Hyperplasia                   | Mild                  |
|                   | Pars Distalis | Hypertrophy                   | Minimal               |
| * Spleen          |               | Extramedullary Hematopoiesis  | Mild                  |
|                   |               | Pigment                       | Minimal               |
| * Testis          | Bilateral     | Edema                         | Minimal               |
| * Thymus          |               | Atrophy                       | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pancreas
- \* Salivary Glands
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea
- Blood Vessel
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Kidney
- \* Liver
- [ Hepatodiaphragmatic Nodule
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- \* Thyroid Gland
- Bile Duct
- TGLs = 1 - 18 ]
- Olfactory Epi
- Pars Distalis
- C Cell
- C Cell
- Nephropathy
- Clear Cell Focus
- Hepatodiaphragmatic Nodule
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Atrophy
- Adenoma
- Hyperplasia
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Minimal
- Mild
- Mild
- Mild
- Minimal
- Minimal
- Mild
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Epididymis	Bilateral, Duct	Exfoliated Germ Cell	Mild
	Bilateral	Hypospermia	Moderate
* Eye	Lens	Cataract	Mild
* Islets, Pancreatic		Adenoma	
Note: On routine slide 09.			
[ Adenoma TGLs = 4 - 9 ]			
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver	Bile Duct	Dilation	Moderate
	Bile Duct	Hyperplasia	Minimal
		Pigment	Minimal
[ Dilation TGLs = 1 - 18 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Minimal
[ Infiltration Cellular TGLs = 2 - 6 ]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300635

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
[ Ulcer TGLs = 3 - 18 ]			
* Testis	Interstit Cell	Adenoma	
	Bilateral, Germinal Epith	Degeneration	Moderate
	Bilateral	Edema	Mild
	Interstit Cell	Hyperplasia	Focal, Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel                | * Bone                   | * Epididymis               | * Esophagus               |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Mammary Gland             | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Testis                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                          |  |                       |                       |
|--------------------------|--|-----------------------|-----------------------|
| * Adrenal Cortex         |  | Hypertrophy           | Focal, Mild           |
|                          |  | Leukemia Mononuclear  |                       |
| * Adrenal Medulla        |  | Leukemia Mononuclear  |                       |
| * Bone Marrow            |  | Leukemia Mononuclear  |                       |
| * Brain                  |  | Hemorrhage            | Mild                  |
|                          |  | Leukemia Mononuclear  |                       |
| * Eye                    |  | Leukemia Mononuclear  |                       |
| * Heart                  |  | Leukemia Mononuclear  |                       |
| * Kidney                 |  | Leukemia Mononuclear  |                       |
|                          |  | Nephropathy           | Chronicprogr, Minimal |
| * Liver                  |  | Leukemia Mononuclear  |                       |
| * Lung                   |  | Infiltration Cellular | Histiocyte, Minimal   |
|                          |  | Leukemia Mononuclear  |                       |
|                          | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                       |                       |
| Lymph Node               | Mediastinal                              | Leukemia Mononuclear  |                       |
| * Lymph Node, Mandibular |  | Leukemia Mononuclear  |                       |
| * Lymph Node, Mesenteric |  | Leukemia Mononuclear  |                       |
| * Nose                   |  | Leukemia Mononuclear  |                       |
| * Spleen                 |  | Hemorrhage            | Marked                |
|                          |  | Leukemia Mononuclear  |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 106

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 1000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300636

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hemorrhage TGLs = 2 - 19 ]

[ Leukemia Mononuclear TGLs = 1 - 18 ]

\* Thymus

Atrophy

Marked

---

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Preputial Gland
- \* Skin
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Spleen
- \* Testis
- \* Thymus
- Hypertrophy
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Atrophy
- Focal, Mild
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Mild
- Mild
- Mild
- Minimal
- Mild

[ Infiltration Cellular TGLs = 1 - 6+7 ]

Olfactory Epi

Bilateral

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 675

DOSE: 1000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel             | * Bone                      |
| * Bone Marrow            | * Brain                    | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Pancreas                 | * Parathyroid Gland      | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle        | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland          | * Trachea                   |
| * Urinary Bladder        |                            |                          |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |   |                           |                               |                    |
|---|---------------------------|-------------------------------|--------------------|
| * Epididymis  | Bilateral                 | Hypospermia                   | Moderate           |
| * Heart   | Valve                     | Cardiomyopathy                | Minimal            |
|   |                           | Hemangioma                    |                    |
| Note: More likely a hematocyst but that is not an available diagnosis in TDMSE. |                           |                               |                    |
| * Intestine Large, Rectum   |                           | Parasite Metazoan             |                    |
| * Islets, Pancreatic  |                           | Adenoma                       |                    |
|   | [ Adenoma TGLs = 1 - 18 ] |                               |                    |
| * Kidney  |                           | Infarct                       | Minimal            |
|   |                           | Nephropathy                   | Chronicprogr, Mild |
| * Liver   |                           | Eosinophilic Focus            |                    |
| * Lung  |                           | Infiltration Cellular         | Histiocyte, Mild   |
| * Nose  | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal            |
| * Pituitary Gland   | Pars Distalis             | Hyperplasia                   | Minimal            |
| * Spleen  |                           | Pigment                       | Mild               |
| * Testis  | Bilateral, Germinal Epith | Degeneration                  | Moderate           |
|   | Bilateral                 | Edema                         | Mild               |
| * Thymus  |                           | Atrophy                       | Moderate           |

PRIMARY CAUSE OF DEATH

- Islets, Pancreatic Adenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Stomach, Forestomach   | * Trachea                  | * Urinary Bladder         |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                      |                           |                               |                        |
|----------------------|---------------------------|-------------------------------|------------------------|
| * Adrenal Medulla    |                           | Hyperplasia                   | Focal, Minimal         |
| * Bone Marrow        |                           | Hypercellularity              | Minimal                |
| * Heart              |                           | Cardiomyopathy                | Minimal                |
| * Islets, Pancreatic |                           | Adenoma                       |                        |
| * Kidney             | Renal Tubule              | Hyperplasia                   | Atypical, Minimal      |
|                      |                           | Nephropathy                   | Chronicprogr, Moderate |
| * Liver              |                           | Clear Cell Focus              |                        |
|                      |                           | Eosinophilic Focus            |                        |
| * Lung               |                           | Infiltration Cellular         | Histiocyte, Minimal    |
| * Nose               | Olfactory Epi             | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas           | Acinus                    | Adenoma                       | Multiple               |
|                      | Acinus                    | Hyperplasia                   | Marked                 |
|                      | [ Adenoma TGLs = 1 - 19 ] |                               |                        |
| * Spleen             |                           | Extramedullary Hematopoiesis  | Mild                   |
|                      |                           | Pigment                       | Mild                   |
| * Stomach, Glandular |                           | Mineral                       | Mild                   |
| * Testis             | Bilateral                 | Polyarteritis Nodosa          | Minimal                |
| * Thymus             |                           | Atrophy                       | Mild                   |
| * Thyroid Gland      | C Cell                    | Adenoma                       |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 617

DOSE: 1000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[ Pheochromocytoma Malignant	TGLs = 1 - 18 ]		
* Bone Marrow		Hypercellularity	Minimal
* Epididymis	Bilateral	Hypospermia	Marked
[ Hypospermia	TGLs = 2 - 14 ]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Suppurative, Moderate
		Nephropathy	Chronicprogr, Marked
[ Inflammation	TGLs = 4-19 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
* Spleen	White Pulp	Atrophy	Moderate
		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
[ Degeneration	TGLs = 3 - 16+17 ]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel             | * Bone                     | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Parathyroid Gland         |
| * Pituitary Gland        | * Stomach, Forestomach     | * Stomach, Glandular      | * Trachea                   |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |   |               |                               |                    |
|---|---------------|-------------------------------|--------------------|
| * Adrenal Cortex                        |               | Leukemia Mononuclear          |                    |
| * Adrenal Medulla                       |               | Hyperplasia                   | Focal, Minimal     |
| * Bone Marrow                           |               | Leukemia Mononuclear          |                    |
| * Brain                                 |               | Oligodendroglioma Malignant   |                    |
| * Epididymis                            |               | Leukemia Mononuclear          |                    |
| * Eye                                   |               | Leukemia Mononuclear          |                    |
| * Harderian Gland                       |               | Leukemia Mononuclear          |                    |
| * Kidney                                |               | Leukemia Mononuclear          |                    |
|   |               | Lipoma                        |                    |
|   |               | Nephropathy                   | Chronicprogr, Mild |
| [ Lipoma TGLs = 3 - 18 ]                |               |                               |                    |
| * Liver                                 |               | Clear Cell Focus              |                    |
|   | Bile Duct     | Hyperplasia                   | Mild               |
|   |               | Leukemia Mononuclear          |                    |
| * Lung                                  |               | Leukemia Mononuclear          |                    |
| [ Leukemia Mononuclear TGLs = 4 - 6+7 ] |               |                               |                    |
| * Lymph Node, Mandibular                |               | Leukemia Mononuclear          |                    |
| [ Leukemia Mononuclear TGLs = 5 - 12 ]  |               |                               |                    |
| * Lymph Node, Mesenteric                |               | Leukemia Mononuclear          |                    |
| * Mammary Gland                         |               | Lymphoma Malignant            |                    |
| * Nose                                  | Olfactory Epi | Accumulation, Hyaline Droplet | Mild               |
|   |               | Leukemia Mononuclear          |                    |
| * Pancreas                              | Acinus        | Hyperplasia                   | Moderate           |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300641

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 1,2 - 19+20 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Leukemia Mononuclear	
		Pigment	Minimal
* Testis	Bilateral	Edema	Minimal
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Brain                     | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Pancreas                | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           |                          |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                                    |               |                               |                       |
|------------------------------------|---------------|-------------------------------|-----------------------|
| * Adrenal Cortex                   |               | Hyperplasia                   | Focal, Marked         |
| Blood Vessel                       |               | Mineral                       | Minimal               |
| * Bone Marrow                      |               | Hypercellularity              | Minimal               |
| * Heart                            |               | Cardiomyopathy                | Minimal               |
| * Kidney                           | Renal Tubule  | Accumulation, Hyaline Droplet | Minimal               |
|                                    |               | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                            |               | Basophilic Focus              |                       |
|                                    |               | Clear Cell Focus              |                       |
|                                    |               | Pigment                       | Minimal               |
| * Lung                             |               | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose                             | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal               |
|                                    |               | Inflammation                  | Acute, Minimal        |
| Peripheral Nerve                   | Ganglion      | Vacuolization Cytoplasmic     | Minimal               |
| Note: Prostatic ganglion involved. |               |                               |                       |
| * Pituitary Gland                  | Pars Distalis | Adenoma                       |                       |
| [ Adenoma TGLs = 1 - 11 ]          |               |                               |                       |
| * Spleen                           |               | Extramedullary Hematopoiesis  | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 112

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300642

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Testis	Bilateral	Pigment	Mild
* Thymus		Edema	Minimal
* Thyroid Gland	C Cell	Atrophy	Mild
		Adenoma	

---

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

**ANIMAL ID:** 113

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300643

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | Blood Vessel                | * Bone                   | * Brain                    |
| * Epididymis              | * Esophagus                 | * Harderian Gland        | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Mammary Gland             | * Pancreas               | * Pituitary Gland          |
| * Preputial Gland         | * Skin                      | * Trachea                |                            |

**MISSING**

- \* Parathyroid Gland

**PRESENT BUT NOT EXAMINED**

- Testes

**OBSERVATIONS**

- |                          |                 |                               |                        |
|--------------------------|-----------------|-------------------------------|------------------------|
| * Adrenal Cortex         |                 | Leukemia Mononuclear          |                        |
| * Bone Marrow            |                 | Hypercellularity              | Marked                 |
| * Eye                    |                 | Leukemia Mononuclear          |                        |
| * Heart                  |                 | Leukemia Mononuclear          |                        |
| * Intestine Large, Cecum |                 | Leukemia Mononuclear          |                        |
| * Kidney                 |                 | Infarct                       | Minimal                |
|                          |                 | Lymphoma Malignant            |                        |
| * Liver                  |                 | Nephropathy                   | Chronicprogr, Moderate |
|                          |                 | Fatty Change                  | Focal, Marked          |
| * Lung                   |                 | Leukemia Mononuclear          |                        |
|                          |                 | Infiltration Cellular         | Histiocyte, Minimal    |
|                          |                 | Leukemia Mononuclear          |                        |
| Lymph Node               | Mediastinal     | Leukemia Mononuclear          |                        |
| [ Leukemia Mononuclear   | TGLs = 2 - 19 ] |                               |                        |
| * Lymph Node, Mandibular |                 | Leukemia Mononuclear          |                        |
| * Lymph Node, Mesenteric |                 | Leukemia Mononuclear          |                        |
| [ Leukemia Mononuclear   | TGLs = 3 - 19 ] |                               |                        |
| * Nose                   | Olfactory Epi   | Accumulation, Hyaline Droplet | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300643

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 1- 18 ]		
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
		Ulcer	Mild
* Stomach, Glandular		Leukemia Mononuclear	
* Testis	Interstit Cell	Hyperplasia	Focal, Mild
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Carcinoma	
* Urinary Bladder		Leukemia Mononuclear	



Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300644

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**PRESENT BUT NOT EXAMINED**

Testes

**OBSERVATIONS**

* Adrenal Cortex	Bilateral	Hypertrophy	Focal, Moderate
* Bone Marrow		Congestion	Moderate
		Hypercellularity	Mild
		Thrombus	Minimal
* Epididymis	Duct	Exfoliated Germ Cell	Minimal
		Hypospermia	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Interstit Cell	Adenoma	Multiple
	Germinal Epith	Degeneration	Moderate
		Edema	Moderate

[ Degeneration TGLs = 1- 16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 114

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300644

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel             | * Bone                      |
| * Brain                  | * Epididymis               | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Liver                  | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas               | * Parathyroid Gland         |
| * Preputial Gland        | * Prostate                 | * Salivary Glands        | * Seminal Vesicle           |
| * Stomach, Forestomach   | * Testis                   | * Trachea                | * Urinary Bladder           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |                                |                               |                        |
|---------------------------|--------------------------------|-------------------------------|------------------------|
| * Bone Marrow             |                                | Hypercellularity              | Moderate               |
| * Heart                   |                                | Cardiomyopathy                | Minimal                |
| * Intestine Large, Rectum |                                | Parasite Metazoan             |                        |
| * Islets, Pancreatic      |                                | Adenoma                       |                        |
| * Kidney                  |                                | Nephropathy                   | Chronicprogr, Mild     |
| * Lung                    |                                | Inflammation                  | Granulomatous, Minimal |
| * Nose                    | Olfactory Epi                  | Accumulation, Hyaline Droplet | Minimal                |
| * Pituitary Gland         | Pars Distalis                  | Adenoma                       |                        |
| * Skin                    | Subcut Tiss                    | Fibroma                       | Multiple               |
|                           | [ Fibroma TGLs = 1,2 - 18+19 ] |                               |                        |
| * Spleen                  |                                | Extramedullary Hematopoiesis  | Mild                   |
| * Stomach, Glandular      |                                | Mineral                       | Mild                   |
| * Thymus                  |                                | Atrophy                       | Minimal                |
| * Thyroid Gland           | C Cell                         | Adenoma                       |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                                      |                               |                        |
|-------------------|--------------------------------------|-------------------------------|------------------------|
| * Epididymis      |                                      | Mesothelioma Malignant        |                        |
| * Kidney          |                                      | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |                                      | Clear Cell Focus              |                        |
|                   |                                      | Eosinophilic Focus            |                        |
|                   |                                      | Mixed Cell Focus              |                        |
|                   | [ Eosinophilic Focus TGLs = 2 - 18 ] |                               |                        |
|                   | [ Mixed Cell Focus TGLs = 1 - 12 ]   |                               |                        |
| * Nose            | Olfactory Epi                        | Accumulation, Hyaline Droplet | Mild                   |
|                   |                                      | Inflammation                  | Acute, Minimal         |
| * Pancreas        | Acinus                               | Hyperplasia                   | Marked                 |
|                   | [ Hyperplasia TGLs = 3 - 18 ]        |                               |                        |
| * Pituitary Gland | Pars Distalis                        | Hypertrophy                   | Minimal                |
| * Spleen          |                                      | Extramedullary Hematopoiesis  | Mild                   |
|                   |                                      | Pigment                       | Minimal                |
| * Testis          | Bilateral                            | Edema                         | Minimal                |
|                   |                                      | Mesothelioma Malignant        |                        |
| * Thymus          |                                      | Atrophy                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel             | * Bone                      |
| * Brain                  | * Esophagus                | * Eye                    | * Harderian Gland           |
| * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas               | * Parathyroid Gland         |
| * Preputial Gland        | * Prostate                 | * Seminal Vesicle        | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Trachea                  | * Urinary Bladder        |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |   |                               |                     |
|---------------------------|---|-------------------------------|---------------------|
| * Bone Marrow             |   | Hypercellularity              | Minimal             |
| * Epididymis              |   | Hypospermia                   | Moderate            |
| * Intestine Large, Rectum |   | Parasite Metazoan             |                     |
| * Kidney                  |   | Nephropathy                   | Chronicprogr, Mild  |
| * Liver                   |   | Clear Cell Focus              |                     |
|                           |   | Pigment                       | Minimal             |
| * Lung                    |   | Infiltration Cellular         | Histiocyte, Minimal |
| * Nose                    | Olfactory Epi                             | Accumulation, Hyaline Droplet | Mild                |
| * Pituitary Gland         | Pars Distalis                             | Hyperplasia                   | Mild                |
| * Salivary Glands         |   | Sarcoma                       |                     |
|                           | [ Sarcoma TGLs = 2 - 18 ]                 |                               |                     |
| * Skin                    | Subcut Tiss                               | Fibroma                       |                     |
|                           | [ Fibroma TGLs = 3 - 20 ]                 | Squamous Cell Papilloma       |                     |
|                           | [ Squamous Cell Papilloma TGLs = 1 - 19 ] |                               |                     |
| * Spleen                  |   | Extramedullary Hematopoiesis  | Mild                |
|                           |   | Pigment                       | Mild                |
| * Testis                  | Germinal Epith                            | Degeneration                  | Moderate            |
|                           |   | Edema                         | Moderate            |
| * Thymus                  |   | Atrophy                       | Minimal             |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

---

**ANIMAL ID:** 117

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300647

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Adenoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Parathyroid Gland        | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                              |                |                               |                        |
|------------------------------|----------------|-------------------------------|------------------------|
| Blood Vessel                 |                | Aneurysm                      | Marked                 |
|                              |                | Thrombus                      | Marked                 |
| [ Aneurysm TGLs = 2 - 20 ]   |                |                               |                        |
| * Heart                      |                | Cardiomyopathy                | Minimal                |
| * Islets, Pancreatic         |                | Hyperplasia                   | Mild                   |
| * Kidney                     |                | Nephropathy                   | Chronicprogr, Moderate |
| * Liver                      |                | Clear Cell Focus              |                        |
| * Lung                       |                | Infiltration Cellular         | Histiocyte, Minimal    |
| * Nose                       | Olfactory Epi  | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas                   | Acinus         | Hyperplasia                   | Marked                 |
| [ Hyperplasia TGLs = 1 -19 ] |                |                               |                        |
| * Pituitary Gland            | Pars Distalis  | Hyperplasia                   | Mild                   |
| * Spleen                     |                | Extramedullary Hematopoiesis  | Mild                   |
|                              |                | Pigment                       | Minimal                |
| * Testis                     | Bilateral      | Edema                         | Minimal                |
|                              | Interstit Cell | Hyperplasia                   | Focal, Mild            |
| * Thymus                     |                | Atrophy                       | Mild                   |
| * Thyroid Gland              | C Cell         | Hyperplasia                   | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Liver                   | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Parathyroid Gland       | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                        |  |                               |                        |
|------------------------|--|-------------------------------|------------------------|
| * Adrenal Medulla      |  | Hyperplasia                   | Focal, Minimal         |
| * Bone Marrow          |  | Hypercellularity              | Minimal                |
| * Heart                |  | Cardiomyopathy                | Minimal                |
| * Islets, Pancreatic   |  | Adenoma                       |                        |
|                        |  | Hyperplasia                   | Marked                 |
| * Kidney               |  | Nephropathy                   | Chronicprogr, Moderate |
| * Mammary Gland        |  | Galactoceles                  | Moderate               |
|                        | [ Galactoceles TGLs = 2 - 19 ]                               |                               |                        |
| * Nose                 | Olfactory Epi  | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas             | Acinus   | Adenoma                       |                        |
|                        | Acinus   | Hyperplasia                   | Marked                 |
|                        | Note: Other nodules were hyperplasia and islet cell adenoma. |                               |                        |
|                        | [ Adenoma TGLs = 1 - 18 ]                                    |                               |                        |
| * Pituitary Gland      | Pars Distalis  | Adenoma                       |                        |
|                        | [ Adenoma TGLs = 3 - 11 ]                                    |                               |                        |
| * Spleen               |  | Extramedullary Hematopoiesis  | Mild                   |
|                        |  | Pigment                       | Mild                   |
| * Stomach, Forestomach | Epithelium   | Hyperplasia                   | Mild                   |
|                        |  | Inflammation                  | Chronic Active, Mild   |
|                        | [ Hyperplasia TGLs = 4 - 20 ]                                |                               |                        |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 119

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300649

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Testis	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Parathyroid Gland       | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                      |                                |                              |                    |
|----------------------|--------------------------------|------------------------------|--------------------|
| * Adrenal Medulla    |                                | Hyperplasia                  | Focal, Minimal     |
| * Bone Marrow        |                                | Congestion                   | Moderate           |
|                      |                                | Hypercellularity             | Minimal            |
| * Heart              |                                | Cardiomyopathy               | Mild               |
| * Islets, Pancreatic |                                | Hyperplasia                  | Marked             |
| * Kidney             |                                | Infarct                      | Minimal            |
|                      |                                | Nephropathy                  | Chronicprogr, Mild |
| * Liver              |                                | Clear Cell Focus             |                    |
|                      | Bile Duct                      | Hyperplasia                  | Minimal            |
| * Nose               |                                | Inflammation                 | Acute, Minimal     |
| * Pancreas           | Acinus                         | Adenoma                      | Multiple           |
|                      | Acinus                         | Atrophy                      | Minimal            |
|                      | Acinus                         | Hyperplasia                  | Marked             |
|                      | [ Adenoma TGLs = 1,2 - 18+19 ] |                              |                    |
| * Pituitary Gland    | Pars Distalis                  | Hyperplasia                  | Minimal            |
| * Skin               |                                | Cyst Epithelial Inclusion    |                    |
| * Spleen             |                                | Extramedullary Hematopoiesis | Mild               |
|                      |                                | Pigment                      | Mild               |
| * Testis             | Bilateral                      | Edema                        | Minimal            |
| * Thymus             |                                | Atrophy                      | Mild               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 120

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300650

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Carcinoma

[ Carcinoma TGLs = 3 - 11 ]

---



**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 121

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 698

**DOSE:** 1000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300651

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Trachea                | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                     |                               |                               |                        |
|---------------------|-------------------------------|-------------------------------|------------------------|
| * Bone Marrow       |                               | Hypercellularity              | Mild                   |
| * Heart             |                               | Cardiomyopathy                | Minimal                |
| * Kidney            |                               | Nephropathy                   | Chronicprogr, Moderate |
| * Liver             |                               | Clear Cell Focus              |                        |
| * Lung              |                               | Infiltration Cellular         | Histiocyte, Minimal    |
| * Nose              | Olfactory Epi                 | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas          |                               | Polyarteritis Nodosa          | Minimal                |
| * Parathyroid Gland |                               | Hyperplasia                   | Focal, Moderate        |
| * Pituitary Gland   | Pars Distalis                 | Hyperplasia                   | Moderate               |
|                     | [ Hyperplasia TGLs = 2 - 11 ] |                               |                        |
| * Skin              | Subcut Tiss                   | Lipoma                        |                        |
|                     | [ Lipoma TGLs = 1 - 18 ]      |                               |                        |
| * Spleen            |                               | Extramedullary Hematopoiesis  | Minimal                |
|                     |                               | Pigment                       | Mild                   |
| * Testis            | Bilateral                     | Polyarteritis Nodosa          | Mild                   |
| * Thymus            |                               | Atrophy                       | Mild                   |
| * Thyroid Gland     | C Cell                        | Hyperplasia                   | Marked                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 557

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Liver
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Marked
- \* Epididymis
- Duct
- Exfoliated Germ Cell
- Moderate
- [ Hypospermia TGLs = 3 - 14 ]
- Hypospermia
- Mild
- \* Heart
- Cardiomyopathy
- Mild
- \* Kidney
- Renal Tubule
- Cyst
- Hyperplasia
- Mild
- [ Nephropathy TGLs = 1 - 8 ]
- Nephropathy
- Chronicprogr, Marked
- \* Lung
- Infiltration Cellular
- Histiocyte, Minimal
- \* Pancreas
- Polyarteritis Nodosa
- Mild
- \* Spleen
- White Pulp
- Atrophy
- Marked
- Pigment
- Mild
- \* Stomach, Glandular
- Mineral
- Mild
- \* Testis
- Germinal Epith
- Degeneration
- Mild
- Bilateral
- Polyarteritis Nodosa
- Minimal
- [ Degeneration TGLs = 2 - 17 ]
- \* Thymus
- Atrophy
- Marked
- \* Thyroid Gland
- C Cell
- Adenoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

---

**ANIMAL ID:** 123

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 557

**DOSE:** 1000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300653

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | Blood Vessel             | * Bone                      | * Brain                  |
| * Epididymis               | * Esophagus              | * Eye                       | * Harderian Gland        |
| * Heart                    | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Pancreas               | * Pituitary Gland           | * Preputial Gland        |
| * Prostate                 | * Salivary Glands        | * Seminal Vesicle           | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Trachea                | * Urinary Bladder           |                          |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                           |   |                               |                        |
|---------------------------|---|-------------------------------|------------------------|
| * Adrenal Medulla         |   | Pheochromocytoma Benign       |                        |
| * Bone Marrow             |   | Hypercellularity              | Mild                   |
| * Intestine Large, Colon  |   | Parasite Metazoan             |                        |
| * Intestine Large, Rectum |   | Parasite Metazoan             |                        |
| * Kidney                  |   | Nephropathy                   | Chronicprogr, Marked   |
| * Liver                   |   | Clear Cell Focus              |                        |
| * Lung                    |   | Infiltration Cellular         | Histiocyte, Minimal    |
|                           |   | Inflammation                  | Granulomatous, Minimal |
| * Nose                    | Olfactory Epi                               | Accumulation, Hyaline Droplet | Mild                   |
| * Skin                    |   | Cyst Epithelial Inclusion     |                        |
|                           | [ Cyst Epithelial Inclusion TGLs = 1 - 18 ] |                               |                        |
| * Spleen                  |   | Extramedullary Hematopoiesis  | Minimal                |
|                           |   | Pigment                       | Minimal                |
| * Testis                  | Bilateral                                   | Polyarteritis Nodosa          | Mild                   |
| * Thymus                  |   | Atrophy                       | Minimal                |
| * Thyroid Gland           | C Cell                                      | Adenoma                       |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 645

DOSE: 1000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pituitary Gland
- \* Thyroid Gland
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Mammary Gland
- \* Preputial Gland
- \* Trachea
- \* Bone Marrow
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Pancreas
- \* Prostate
- \* Urinary Bladder
- \* Brain
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Skin

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla  
Blood Vessel
- \* Epididymis  
[ Hypospermia TGLs = 2 - 14 ]
- \* Eye
- \* Heart
- \* Kidney
- \* Liver  
[ Nephropathy TGLs = 1 - 8 ]
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric  
Mesentery
- \* Nose
- \* Salivary Glands
- Hyperplasia
- Mineral
- Exfoliated Germ Cell
- Hypospermia
- Inflammation
- Cardiomyopathy
- Mineral
- Mineral
- Cyst
- Hyperplasia
- Nephropathy
- Eosinophilic Focus
- Mineral
- Mineral
- Atrophy
- Atrophy
- Mineral
- Accumulation, Hyaline Droplet
- Mineral
- Focal, Minimal
- Moderate
- Moderate
- Mild
- Mild
- Mild
- Mild
- Mild
- Chronicprogr, Marked
- Minimal
- Mild
- Moderate
- Moderate
- Mild
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 645

DOSE: 1000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300655

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle	Artery	Mineral	Mild
* Spleen	White Pulp	Atrophy	Moderate
		Pigment	Mild
* Stomach, Forestomach	Artery	Mineral	Mild
* Stomach, Glandular	Artery	Mineral	Marked
* Testis	Bilateral, Germinal Epith	Degeneration	Mild
	Bilateral	Polyarteritis Nodosa	Mild
	[ Degeneration TGLs = 3 - 16+17 ]		
* Thymus		Atrophy	Marked
Tongue		Inflammation	Acute, Minimal
	Note: Actually this is edema (moderate) not an available term in TDMSE.		
	[ Inflammation TGLs = 4 - 18 ]		

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Pancreas                | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testis                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                   |  |                               |                     |
|-------------------|--|-------------------------------|---------------------|
| * Heart           |  | Cardiomyopathy                | Minimal             |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Mild  |
| * Liver           |  | Basophilic Focus              |                     |
|                   |  | Clear Cell Focus              |                     |
|                   |  | Eosinophilic Focus            |                     |
| * Lung            | Alveolar Epith                           | Hyperplasia                   | Minimal             |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] | Infiltration Cellular         | Histiocyte, Minimal |
| * Nose            | Respirat Epith                           | Accumulation, Hyaline Droplet | Minimal             |
|                   | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked              |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal             |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                |
|                   |  | Pigment                       | Minimal             |
| * Thymus          |  | Atrophy                       | Mild                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 512

DOSE: 1000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Trachea
- Blood Vessel
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pituitary Gland
- \* Skin
- \* Urinary Bladder
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Heart
- \* Intestine Small, Duodenum
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Epididymis
- \* Eye
- \* Harderian Gland
- \* Kidney
- \* Liver
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Nose
- \* Pancreas
- \* Prostate
- Bilateral, Duct
- Bilateral
- Renal Tubule
- Hypertrophy
- Leukemia Granulocytic
- Osteopetrosis
- Leukemia Granulocytic
- Necrosis
- Hemorrhage
- Exfoliated Germ Cell
- Hypospermia
- Inflammation
- Leukemia Granulocytic
- Leukemia Granulocytic
- Accumulation, Hyaline Droplet
- Leukemia Granulocytic
- Leukemia Granulocytic
- Infiltration Cellular
- Leukemia Granulocytic
- Leukemia Granulocytic
- Leukemia Granulocytic
- Leukemia Granulocytic
- Leukemia Granulocytic
- Leukemia Granulocytic
- Focal, Mild
- Mild
- Moderate
- Minimal
- Minimal
- Mild
- Chronic Active, Minimal
- Moderate
- Histiocyte, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 512

DOSE: 1000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300657

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	White Pulp	Atrophy	Mild
		Extramedullary Hematopoiesis	Mild
		Leukemia Granulocytic	
[ Leukemia Granulocytic	TGLs = 1 - 8 ]		
* Testis	Bilateral, Germinal Epith	Degeneration	Mild
		Inflammation	Chronic Active, Minimal
* Thymus		Leukemia Granulocytic	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Granulocytic

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel              | * Bone                      | * Brain                  | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Adrenal Cortex  |  | Hypertrophy                   | Moderate               |
| * Adrenal Medulla |  | Pheochromocytoma Benign       |                        |
| * Bone Marrow     |  | Hypercellularity              | Minimal                |
| * Epididymis      |  | Hypospermia                   | Mild                   |
| * Heart           |  | Cardiomyopathy                | Minimal                |
|                   |  | Polyarteritis Nodosa          | Minimal                |
| * Kidney          |  | Infarct                       | Minimal                |
|                   |  | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |  | Clear Cell Focus              |                        |
|                   |  | Degeneration                  | Cystic, Minimal        |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild       |
|                   |  | Inflammation                  | Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 4 - 6+7 ] |                               |                        |
| Lymph Node        | Lumbar                                   | Dilation                      | Marked                 |
|                   | [ Dilation TGLs = 3 - 19 ]               |                               |                        |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate               |
| * Pancreas        |  | Polyarteritis Nodosa          | Minimal                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300658

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Cyst Epithelial Inclusion	
	[ Cyst Epithelial Inclusion TGLs = 1 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Germinal Epith	Degeneration	Moderate
	Bilateral	Edema	Minimal
	Bilateral	Polyarteritis Nodosa	Mild
	[ Degeneration TGLs = 2 - 17 ]		
* Thymus		Atrophy	Mild
* Thyroid Gland	Bilateral, C Cell	Adenoma	



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
	[ Pheochromocytoma Benign TGLs = 1 - 18 ]		
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
		Foreign Body	
		Inflammation	Acute, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Prostate	Epithelium, Ventral	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral	Edema	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 669

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testis	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Edema	Minimal
		Hemorrhage	Mild
* Heart		Leukemia Mononuclear	
* Kidney	Renal Tubule	Leukemia Mononuclear	
		Cyst	
		Leukemia Mononuclear	
* Liver		Nephropathy	Chronicprogr, Marked
* Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mediastinal	Lymphoma Malignant	
		Lymphoma Malignant	
[ Lymphoma Malignant	TGLs = 5 - 21 ]		
[ Lymphoma Malignant	TGLs = 4 - 20 ]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 669

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300660

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Leukemia Mononuclear	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pituitary Gland		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hemorrhage	Moderate
		Leukemia Mononuclear	
	[ Hemorrhage TGLs = 2 - 19 ]		
	[ Leukemia Mononuclear TGLs = 1 - 18 ]		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Brain Hemorrhage

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | Blood Vessel             | * Bone                      | * Brain                  |
| * Epididymis               | * Esophagus              | * Eye                       | * Harderian Gland        |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nose                     | * Preputial Gland        | * Prostate                  | * Salivary Glands        |
| * Seminal Vesicle          | * Skin                   | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Trachea                  | * Urinary Bladder        |                             |                          |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                           |                |                              |                     |
|---------------------------|----------------|------------------------------|---------------------|
| * Adrenal Cortex          |                | Hypertrophy                  | Focal, Mild         |
| * Bone Marrow             |                | Hypercellularity             | Minimal             |
| * Heart                   |                | Cardiomyopathy               | Minimal             |
| * Intestine Large, Rectum |                | Parasite Metazoan            |                     |
| * Islets, Pancreatic      |                | Hyperplasia                  | Mild                |
| * Kidney                  |                | Nephropathy                  | Chronicprogr, Mild  |
| * Liver                   |                | Clear Cell Focus             |                     |
| * Lung                    |                | Infiltration Cellular        | Histiocyte, Minimal |
| * Pancreas                | Acinus         | Hyperplasia                  | Mild                |
| * Pituitary Gland         | Pars Distalis  | Hyperplasia                  | Mild                |
| * Spleen                  |                | Extramedullary Hematopoiesis | Mild                |
|                           |                | Pigment                      | Minimal             |
| * Testis                  | Germinal Epith | Degeneration                 | Minimal             |
|                           | Bilateral      | Edema                        | Minimal             |
| * Thymus                  |                | Atrophy                      | Mild                |
| * Thyroid Gland           | C Cell         | Hyperplasia                  | Marked              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Prostate
- \* Stomach, Glandular
- Blood Vessel
- \* Eye
- \* Intestine Small, Duodenum
- \* Liver
- \* Pancreas
- \* Salivary Glands
- \* Thyroid Gland
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Trachea
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Intestine Large, Rectum
- \* Kidney
- \* Lung
- \* Nose
- \* Pituitary Gland
- [ Adenoma TGLs = 3 - 11 ]
- \* Skin
- [ Inflammation TGLs = 1 - 18 ]
- \* Spleen
- \* Testis
- \* Thymus
- Tongue
- Hypertrophy
- Hypercellularity
- Hypospermia
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Edema
- Atrophy
- Inflammation
- Polyarteritis Nodosa
- Squamous Cell Papilloma
- Focal, Mild
- Minimal
- Moderate
- Minimal
- Chronicprogr, Moderate
- Histiocyte, Mild
- Mild
- Chronic Active, Marked
- Mild
- Mild
- Mild
- Minimal
- Moderate
- Suppurative, Moderate
- Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

---

**ANIMAL ID:** 132

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300662

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Squamous Cell Papilloma TGLs = 4 - 19 ]

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                               |                |                               |                         |
|-------------------------------|----------------|-------------------------------|-------------------------|
| * Bone Marrow                 |                | Hypercellularity              | Mild                    |
| * Heart                       | Valve          | Fibrosis                      | Mild                    |
| * Islets, Pancreatic          |                | Hyperplasia                   | Mild                    |
| * Kidney                      |                | Nephropathy                   | Chronicprogr, Mild      |
| * Liver                       |                | Clear Cell Focus              |                         |
|                               | Bile Duct      | Hyperplasia                   | Minimal                 |
| * Lung                        |                | Infiltration Cellular         | Histiocyte, Minimal     |
| Lymph Node                    | Mediastinal    | Hyperplasia                   | Lymphocyte, Mild        |
| [ Hyperplasia TGLs = 1 - 19 ] |                |                               |                         |
| * Nose                        | Olfactory Epi  | Accumulation, Hyaline Droplet | Minimal                 |
|                               |                | Inflammation                  | Chronic Active, Minimal |
| * Pancreas                    | Acinus         | Atrophy                       | Minimal                 |
|                               | Acinus         | Hyperplasia                   | Moderate                |
| * Pituitary Gland             | Pars Distalis  | Hyperplasia                   | Mild                    |
| * Spleen                      |                | Extramedullary Hematopoiesis  | Mild                    |
|                               |                | Pigment                       | Minimal                 |
| * Testis                      | Germinal Epith | Degeneration                  | Minimal                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 133

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300663

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

		Edema	Minimal
	Bilateral, Seminif Tub	Mineral	Minimal
* Thymus		Atrophy	Mild

---



Experiment Number: 10188 - 02  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300664

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**PRESENT BUT NOT EXAMINED**

Testes

**OBSERVATIONS**

* Adrenal Cortex	Bilateral	Hypertrophy	Focal, Mild
* Bone Marrow		Hypercellularity	Minimal
* Heart		Cardiomyopathy	Minimal
		Polyarteritis Nodosa	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[ Infiltration Cellular TGLs = 5 - 6+7 ]		
* Pancreas	Acinus	Adenoma	Multiple
	Acinus	Hyperplasia	Marked
	[ Adenoma TGLs = 1,2,3,4 - 18+19+20+21 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Germinal Epith	Degeneration	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 134

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300664

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Interstit Cell

Hyperplasia

Focal, Mild

Atrophy

Moderate

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Thymus
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Seminal Vesicle
- \* Trachea
- \* Bone
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Skin
- \* Urinary Bladder
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Parathyroid Gland
- \* Stomach, Glandular

MISSING

- \* Lymph Node, Mandibular

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Eye
- \* Kidney
- \* Lung
- [ Sarcoma TGLs = 2 - 19 ]
- \* Nose
- \* Pituitary Gland
- \* Prostate
- \* Salivary Glands
- [ Sarcoma TGLs = 1 - 18 ]
- \* Spleen
- \* Stomach, Forestomach
- Antr Chamber
- Olfactory Epi
- Pars Distalis
- Ventral
- Degeneration
- Hypercellularity
- Inflammation
- Infarct
- Nephropathy
- Infiltration Cellular
- Inflammation
- Sarcoma
- Accumulation, Hyaline Droplet
- Hyperplasia
- Inflammation
- Sarcoma
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Cystic, Minimal
- Moderate
- Acute, Minimal
- Minimal
- Chronicprogr, Mild
- Histiocyte, Minimal
- Granulomatous, Minimal
- Metastatic (Salivary Glands)
- Minimal
- Marked
- Chronic Active, Minimal
- Moderate
- Mild
- Squamous, Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 135

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300665

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Testis  
\* Thyroid Gland

Germinal Epith  
C Cell

Inflammation  
Degeneration  
Hyperplasia  
Sarcoma

Chronic, Mild  
Minimal  
Mild  
Metastatic (Salivary Glands)

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Marked
* Bone Marrow		Hypercellularity	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas	Acinus	Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral	Edema	Minimal
	Interstit Cell	Hyperplasia	Focal, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                   |               |   |                     |
|-------------------|---------------|---|---------------------|
| * Heart           |               | Cardiomyopathy<br>Schwannoma Malignant  | Minimal             |
| * Kidney          | Renal Tubule  | Cyst<br>Nephropathy                     | Chronicprogr, Mild  |
| * Liver           |               | Clear Cell Focus                        |                     |
| * Lung            |               | Infiltration Cellular                   | Histiocyte, Minimal |
| * Nose            | Olfactory Epi | Accumulation, Hyaline Droplet           | Minimal             |
| * Pancreas        | Acinus        | Hyperplasia                             | Minimal             |
| * Pituitary Gland | Pars Distalis | Hyperplasia                             | Mild                |
| * Spleen          |               | Extramedullary Hematopoiesis<br>Pigment | Mild<br>Minimal     |
| * Testis          | Bilateral     | Edema                                   | Minimal             |
| * Thymus          |               | Atrophy                                 | Minimal             |
| * Thyroid Gland   | C Cell        | Hyperplasia                             | Moderate            |
| * Urinary Bladder |               | Polyarteritis Nodosa                    | Minimal             |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 694

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Mammary Gland           |
| * Nose                      | * Pancreas               | * Pituitary Gland          | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                          |                              |                    |
|--------------------------|------------------------------|--------------------|
| * Epididymis             | Mesothelioma Malignant       |                    |
| * Heart                  | Schwannoma Malignant         |                    |
| * Kidney                 | Nephropathy                  | Chronicprogr, Mild |
| * Lymph Node, Mesenteric | Hemangiosarcoma              |                    |
| * Spleen                 | Extramedullary Hematopoiesis | Mild               |
|                          | Pigment                      | Minimal            |
| * Testis                 | Mesothelioma Malignant       |                    |
| * Thymus                 | Atrophy                      | Mild               |

PRIMARY CAUSE OF DEATH

- Heart Schwannoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Seminal Vesicle
- \* Testis
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Skin
- \* Thyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
  - [ Fibroadenoma TGLs = 1- 18 ]
- \* Nose
- \* Pituitary Gland
- \* Prostate
- \* Spleen
- \* Thymus
- Hyperplasia
- Hypercellularity
- Infarct
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Accumulation, Hyaline Droplet
- Hyperplasia
- Hypertrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Focal, Mild
- Mild
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Mild
- Minimal
- Minimal
- Minimal
- Mild
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Parathyroid Gland        | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                          |                                 |                               |                         |
|--------------------------|---------------------------------|-------------------------------|-------------------------|
| * Bone Marrow            |                                 | Hypercellularity              | Minimal                 |
| * Heart                  |                                 | Cardiomyopathy                | Minimal                 |
| * Islets, Pancreatic     |                                 | Adenoma                       |                         |
|                          | [ Adenoma TGLs = 1 - 18 ]       |                               |                         |
| * Kidney                 |                                 | Nephropathy                   | Chronicprogr, Marked    |
| * Liver                  |                                 | Clear Cell Focus              |                         |
| * Lymph Node, Mandibular |                                 | Infiltration Cellular         | Plasma Cell, Moderate   |
| * Nose                   | Olfactory Epi                   | Accumulation, Hyaline Droplet | Moderate                |
|                          |                                 | Inflammation                  | Chronic Active, Minimal |
| * Pancreas               | Acinus                          | Adenoma                       | Multiple                |
|                          | Acinus                          | Hyperplasia                   | Mild                    |
|                          | [ Adenoma TGLs = 2,3,4,5 - 18 ] |                               |                         |
| * Pituitary Gland        | Pars Distalis                   | Hyperplasia                   | Marked                  |
| * Spleen                 |                                 | Extramedullary Hematopoiesis  | Mild                    |
|                          |                                 | Pigment                       | Minimal                 |
| * Stomach, Forestomach   |                                 | Polyarteritis Nodosa          | Minimal                 |
| * Stomach, Glandular     |                                 | Polyarteritis Nodosa          | Minimal                 |
| * Testis                 | Bilateral                       | Polyarteritis Nodosa          | Mild                    |
| * Thymus                 |                                 | Atrophy                       | Moderate                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Di(2-ethylhexyl) Phthalate  
CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
Time Report Requested: 13:48:37  
First Dose M/F: 06/27/11 / 06/28/11  
Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300671

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

**MISSING**

\* Parathyroid Gland

**PRESENT BUT NOT EXAMINED**

Testes

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
	[ Pheochromocytoma Benign TGLs = 1 - 11 ]		
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
		Necrosis	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Minimal
	[ Infiltration Cellular TGLs = 2 - 7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
* Prostate	Epithelium, Ventral	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Germinal Epith	Degeneration	Minimal
		Edema	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 141

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300671

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

\* Thyroid Gland

C Cell

Hyperplasia

Moderate

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 694

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Liver
- \* Preputial Gland
- \* Trachea
- \* Bone
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Seminal Vesicle
- \* Urinary Bladder
- \* Brain
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Skin
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Thyroid Gland

MISSING

- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla
- Blood Vessel
- \* Bone Marrow
- \* Epididymis
- \* Eye
- \* Heart
- \* Kidney
- \* Lung
- Mesentery
- \* Nose
- \* Pituitary Gland
- Prostate
- \* Salivary Glands
- Bilateral, Duct
- Cornea
- Artery
- Epithelium, Papilla
- Artery
- Artery
- Pars Distalis
- Artery
- Artery
- Hyperplasia
- Mineral
- Hypercellularity
- Exfoliated Germ Cell
- Inflammation
- Cardiomyopathy
- Mineral
- Mineral
- Hyperplasia
- Nephropathy
- Infiltration Cellular
- Mineral
- Mineral
- Inflammation
- Hyperplasia
- Mineral
- Mineral
- Focal, Minimal
- Moderate
- Mild
- Moderate
- Acute, Minimal
- Marked
- Moderate
- Mild
- Mild
- Chronicprogr, Marked
- Histiocyte, Moderate
- Mild
- Mild
- Acute, Minimal
- Marked
- Mild
- Minimal

[ Hyperplasia TGLs = 1 - 18 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 142

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 694

**DOSE:** 1000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300672

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Spleen	White Pulp	Atrophy	Marked
		Pigment	Mild
* Stomach, Forestomach		Mineral	Mild
* Stomach, Glandular		Mineral	Mild
* Testis	Bilateral	Polyarteritis Nodosa	Mild

---

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH - Heart Cardiomyopathy

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel             | * Bone                      |
| * Brain                  | * Epididymis               | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Parathyroid Gland        | * Preputial Gland        | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                   | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                | * Urinary Bladder           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |  |                              |                        |
|---------------------------|--|------------------------------|------------------------|
| * Bone Marrow             |  | Hypercellularity             | Minimal                |
| * Heart                   |  | Cardiomyopathy               | Minimal                |
| * Intestine Large, Rectum |  | Parasite Metazoan            |                        |
| * Islets, Pancreatic      |  | Adenoma                      |                        |
| * Kidney                  |  | Nephropathy                  | Chronicprogr, Mild     |
| * Liver                   |  | Clear Cell Focus             |                        |
|                           |  | Pigment                      | Mild                   |
| * Lung                    |  | Infiltration Cellular        | Histiocyte, Minimal    |
|                           |  | Inflammation                 | Granulomatous, Minimal |
|                           | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                              |                        |
| * Nose                    |  | Inflammation                 | Acute, Minimal         |
| * Pancreas                | Acinus                                   | Atrophy                      | Minimal                |
|                           | Acinus                                   | Hyperplasia                  | Moderate               |
|                           | [ Hyperplasia TGLs = 1 - 18 ]            |                              |                        |
| * Pituitary Gland         | Pars Distalis                            | Hyperplasia                  | Minimal                |
| * Spleen                  |  | Extramedullary Hematopoiesis | Mild                   |
|                           |  | Pigment                      | Mild                   |
| * Testis                  | Germinal Epith                           | Degeneration                 | Minimal                |
|                           | Bilateral                                | Edema                        | Minimal                |
| * Thymus                  |  | Atrophy                      | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300674

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Bile Duct
- Alveolar Epith
- Olfactory Epi
- Acinus
- Acinus
- [ Adenoma TGLs = 1-18 ]
- Pars Distalis
- Bilateral
- Hyperplasia
- Hyperplasia
- Inflammation
- Accumulation, Hyaline Droplet
- Inflammation
- Adenoma
- Hyperplasia
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Atrophy
- Focal, Mild
- Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Chronic Active, Minimal
- Moderate
- Acute, Minimal
- Moderate
- Mild
- Mild
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Parathyroid Gland       | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Trachea                   | * Urinary Bladder        |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                 |  |                               |                       |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow   |  | Hypercellularity              | Moderate              |
| * Kidney        |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver         |  | Basophilic Focus              |                       |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Mild      |
|                 | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Pancreas      | Acinus                                   | Atrophy                       | Minimal               |
| * Skin          | Subcut Tiss                              | Fibroma                       |                       |
|                 | [ Fibroma TGLs = 1 - 18 ]                |                               |                       |
| * Spleen        |  | Extramedullary Hematopoiesis  | Mild                  |
|                 |  | Pigment                       | Minimal               |
| * Testis        | Germinal Epith                           | Degeneration                  | Minimal               |
| * Thyroid Gland | C Cell                                   | Adenoma                       |                       |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                   |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                    |
| * Harderian Gland           | * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland          |
| * Parathyroid Gland         | * Preputial Gland        | * Prostate                 | * Salivary Glands        |
| * Seminal Vesicle           | * Skin                   | * Stomach, Glandular       | * Thyroid Gland          |
| * Trachea                   | * Urinary Bladder        |                            |                          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |                                       |                               |                       |
|---------------------------|---------------------------------------|-------------------------------|-----------------------|
| * Bone Marrow             |                                       | Hypercellularity              | Mild                  |
| * Intestine Large, Rectum |                                       | Parasite Metazoan             |                       |
| * Kidney                  |                                       | Infarct                       | Minimal               |
|                           |                                       | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                   | Hepatocyte                            | Cytoplasmic Alteration        | Minimal               |
|                           |                                       | Leukemia Mononuclear          |                       |
| * Nose                    | Olfactory Epi                         | Accumulation, Hyaline Droplet | Marked                |
|                           |                                       | Inflammation                  | Acute, Minimal        |
| * Pancreas                | Acinus                                | Atrophy                       | Minimal               |
|                           |                                       | Inflammation                  | Chronic Active, Mild  |
| * Pituitary Gland         | Pars Distalis                         | Hypertrophy                   | Minimal               |
| * Spleen                  |                                       | Leukemia Mononuclear          |                       |
|                           | [ Leukemia Mononuclear TGLs = 1 - 8 ] |                               |                       |
| * Stomach, Forestomach    | Epithelium                            | Hyperplasia                   | Minimal               |
| * Testis                  | Germinal Epith                        | Degeneration                  | Minimal               |
| * Thymus                  |                                       | Atrophy                       | Moderate              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Pancreas                | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                 |                     |                               |                        |
|-----------------|---------------------|-------------------------------|------------------------|
| * Brain         |                     | Glioma Malignant              |                        |
| * Kidney        | Epithelium, Papilla | Hyperplasia                   | Minimal                |
|                 |                     | Nephropathy                   | Chronicprogr, Mild     |
| * Liver         |                     | Clear Cell Focus              |                        |
|                 |                     | Extramedullary Hematopoiesis  | Minimal                |
|                 | Bile Duct           | Hyperplasia                   | Minimal                |
| * Lung          |                     | Infiltration Cellular         | Histiocyte, Minimal    |
|                 |                     | Inflammation                  | Granulomatous, Minimal |
| * Nose          | Olfactory Epi       | Accumulation, Hyaline Droplet | Moderate               |
| * Spleen        |                     | Extramedullary Hematopoiesis  | Mild                   |
|                 |                     | Pigment                       | Mild                   |
| * Testis        |                     | Edema                         | Minimal                |
| * Thymus        |                     | Atrophy                       | Moderate               |
| * Thyroid Gland | C Cell              | Adenoma                       |                        |
|                 | C Cell              | Hyperplasia                   | Moderate               |

[ Adenoma TGLs = 1 - 11 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 708

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Brain                    |
| * Epididymis              | * Esophagus                 | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                              |                   |                              |                    |
|------------------------------|-------------------|------------------------------|--------------------|
| * Bone                       |                   | Osteopetrosis                | Mild               |
| * Bone Marrow                |                   | Increased Bone               | Mild               |
| * Eye                        | Bilateral, Cornea | Inflammation                 | Acute, Mild        |
| * Harderian Gland            |                   | Inflammation                 | Chronic, Minimal   |
| * Heart                      |                   | Cardiomyopathy               | Mild               |
| * Kidney                     |                   | Nephropathy                  | Chronicprogr, Mild |
| * Liver                      |                   | Clear Cell Focus             |                    |
| * Lung                       | Alveolar Epith    | Hyperplasia                  | Mild               |
| Lymph Node                   | Mediastinal       | Hemorrhage                   | Mild               |
| [ Hemorrhage TGLs = 1 - 18 ] |                   |                              |                    |
| * Pancreas                   | Acinus            | Atrophy                      | Minimal            |
| * Spleen                     |                   | Extramedullary Hematopoiesis | Mild               |
|                              |                   | Pigment                      | Minimal            |
| * Testis                     |                   | Edema                        | Minimal            |
| * Thymus                     |                   | Atrophy                      | Mild               |
| * Thyroid Gland              | C Cell            | Hyperplasia                  | Mild               |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Pancreas                 | * Preputial Gland         | * Prostate                  | * Salivary Glands        |
| * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Trachea                  | * Urinary Bladder         |                             |                          |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                      |                   |                               |                        |
|----------------------|-------------------|-------------------------------|------------------------|
| * Islets, Pancreatic |                   | Hyperplasia                   | Mild                   |
| * Kidney             |                   | Nephropathy                   | Chronicprogr, Mild     |
| * Liver              |                   | Clear Cell Focus              |                        |
| * Lung               |                   | Infiltration Cellular         | Histiocyte, Minimal    |
|                      |                   | Inflammation                  | Granulomatous, Minimal |
| * Nose               | Olfactory Epi     | Accumulation, Hyaline Droplet | Mild                   |
| * Pituitary Gland    | Pars Distalis     | Hyperplasia                   | Minimal                |
| * Spleen             |                   | Extramedullary Hematopoiesis  | Mild                   |
|                      |                   | Pigment                       | Minimal                |
| * Testis             | Bilateral         | Edema                         | Minimal                |
| * Thymus             |                   | Atrophy                       | Moderate               |
| * Thyroid Gland      | Bilateral, C Cell | Adenoma                       |                        |

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| Blood Vessel              | * Bone                      | * Brain                  | * Esophagus                |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Pancreas                | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                   |                               |                        |
|-------------------|-------------------|-------------------------------|------------------------|
| * Adrenal Cortex  |                   | Hyperplasia                   | Focal, Marked          |
| * Adrenal Medulla |                   | Hyperplasia                   | Focal, Mild            |
| * Bone Marrow     |                   | Hypercellularity              | Mild                   |
| * Epididymis      |                   | Hypospermia                   | Mild                   |
| * Eye             | Bilateral, Cornea | Inflammation                  | Acute, Mild            |
| * Kidney          |                   | Infarct                       | Minimal                |
|                   |                   | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |                   | Clear Cell Focus              |                        |
| * Lung            |                   | Infiltration Cellular         | Histiocyte, Mild       |
| * Nose            | Olfactory Epi     | Accumulation, Hyaline Droplet | Minimal                |
| * Pituitary Gland | Pars Distalis     | Hypertrophy                   | Minimal                |
| * Spleen          |                   | Extramedullary Hematopoiesis  | Mild                   |
|                   |                   | Pigment                       | Minimal                |
| * Testis          | Interstit Cell    | Adenoma                       |                        |
|                   | Germinal Epith    | Degeneration                  | Mild                   |
|                   |                   | Edema                         | Moderate               |
| * Thymus          |                   | Atrophy                       | Moderate               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * Bone                   | * Bone Marrow               |
| * Brain                  | * Epididymis               | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Preputial Gland        | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                   | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                | * Urinary Bladder           |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                           |   |                               |                        |
|---------------------------|---|-------------------------------|------------------------|
| * Adrenal Medulla         |   | Hyperplasia                   | Focal, Mild            |
| * Heart                   |   | Cardiomyopathy                | Minimal                |
| * Intestine Large, Rectum |   | Parasite Metazoan             |                        |
| * Kidney                  |   | Infarct                       | Minimal                |
| * Liver                   |   | Nephropathy                   | Chronicprogr, Moderate |
|                           |   | Basophilic Focus              |                        |
|                           |   | Clear Cell Focus              |                        |
|                           | Hepatocyte                                    | Cytoplasmic Alteration        | Minimal                |
|                           | Bile Duct                                     | Hyperplasia                   | Minimal                |
|                           |   | Pigment                       | Mild                   |
| * Mammary Gland           |   | Fibroadenoma                  |                        |
|                           | [ Fibroadenoma TGLs = 1 - 19 ]                |                               |                        |
| * Nose                    | Olfactory Epi                                 | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas                | Acinus  | Adenoma                       | Multiple               |
|                           | [ Adenoma TGLs = 2,3,4,5,6 - 18+20+21+22+23 ] |                               |                        |
| * Pituitary Gland         | Pars Distalis                                 | Hyperplasia                   | Mild                   |
| * Spleen                  |   | Extramedullary Hematopoiesis  | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 151

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300681

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Testis

Interstit Cell

Pigment

Minimal

Hyperplasia

Focal, Minimal

\* Thymus

Atrophy

Moderate

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Necrosis	Minimal
		Pigment	Minimal
	[ Eosinophilic Focus TGLs = 3 - 12 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas	Acinus	Adenoma	Multiple
	Acinus	Hyperplasia	Marked
	[ Adenoma TGLs = 1,2 - 18+19 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral	Edema	Minimal
* Thymus		Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Mammary Gland
  - \* Nose
  - \* Pancreas
  - \* Spleen
- Papilla
- Hepatocyte
- Bile Duct
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- Olfactory Epi
- Acinus
- Acinus
- [ Hyperplasia TGLs = 2 - 18 ]
- Congestion
- Cardiomyopathy
- Hemorrhage
- Nephropathy
- Cholangiofibrosis
- Clear Cell Focus
- Cytoplasmic Alteration
- Hyperplasia
- Pigment
- Infiltration Cellular
- Hyperplasia
- Accumulation, Hyaline Droplet
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Minimal
- Minimal
- Minimal
- Chronicprogr, Mild
- Mild
- Moderate
- Minimal
- Mild
- Histiocyte, Mild
- Marked
- Moderate
- Moderate
- Marked
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 153

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300683

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testis		Edema	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	Bilateral, C Cell	Adenoma	

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 628

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                |
| * Parathyroid Gland         | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                |                               |                      |
|-------------------|----------------|-------------------------------|----------------------|
| Blood Vessel      |                | Mineral                       | Minimal              |
| * Bone Marrow     |                | Hypercellularity              | Mild                 |
| * Kidney          |                | Nephropathy                   | Chronicprogr, Mild   |
| * Liver           | Hepatocyte     | Cytoplasmic Alteration        | Mild                 |
| * Lung            |                | Infiltration Cellular         | Histiocyte, Moderate |
| * Nose            | Olfactory Epi  | Accumulation, Hyaline Droplet | Moderate             |
| * Pituitary Gland | Pars Distalis  | Hyperplasia                   | Minimal              |
| * Spleen          |                | Pigment                       | Moderate             |
| * Testis          | Interstit Cell | Hyperplasia                   | Focal, Mild          |
| * Thymus          |                | Atrophy                       | Mild                 |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Colon
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
  - Hypertrophy
  - Metaplasia
  - Blood Vessel
    - Degeneration
- \* Bone Marrow
  - Hypercellularity
- \* Heart
  - Cardiomyopathy
- \* Intestine Large, Rectum
  - Parasite Metazoan
- \* Islets, Pancreatic
  - Adenoma
- \* Kidney
  - Nephropathy
- \* Liver
  - Clear Cell Focus
  - Hepatocyte
    - Cytoplasmic Alteration
  - Bile Duct
    - Hyperplasia
    - Pigment
- \* Lung
  - Inflammation
- \* Nose
  - Chronicprogr, Moderate
- \* Pancreas
  - Accumulation, Hyaline Droplet
  - Adenoma
- [ Adenoma TGLs = 1,2,3,4,5 - 18+19+20+21+22 ]
- \* Pituitary Gland
  - Hyperplasia
- \* Spleen
  - Extramedullary Hematopoiesis
  - Pigment
- \* Testis
  - Germinal Epith
    - Degeneration

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 155

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300685

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Minimal

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus               |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Parathyroid Gland       |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Testis                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Eye             | Choroid                                  | Hyperplasia                   | Mild                   |
| * Heart           |  | Cardiomyopathy                | Mild                   |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |  | Clear Cell Focus              |                        |
|                   |  | Pigment                       | Mild                   |
| * Lung            | Alveolar Epith                           | Hyperplasia                   | Mild                   |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate               |
| * Pancreas        | Acinus                                   | Adenoma                       | Multiple               |
|                   | Acinus                                   | Hyperplasia                   | Marked                 |
|                   | [ Adenoma TGLs = 1,2,3,4 - 18+19+20+21 ] |                               |                        |
|                   | [ Hyperplasia TGLs = 5 - 22 ]            |                               |                        |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal                |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                   |
|                   |  | Pigment                       | Mild                   |
| * Thymus          |  | Atrophy                       | Moderate               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Colon
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Small, Duodenum
- \* Mammary Gland
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Small, Ileum
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Brain
- \* Harderian Gland
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Testis

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Rectum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Spleen
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Hyperplasia
- Parasite Metazoan
- Hyperplasia
- Adenoma
- Nephropathy
- Clear Cell Focus
- Hepatocyte
- Cytoplasmic Alteration
- Eosinophilic Focus
- Pigment
- [ Clear Cell Focus TGLs = 3,4 - 12+19 ]
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Focal, Minimal
- Mild
- Minimal
- Lymphocyte, Mild
- Lymphocyte, Mild
- Chronicprogr, Moderate
- Mild
- Minimal
- Histiocyte, Mild
- Mild
- Multiple
- Marked
- Mild
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 157

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300687

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Minimal

\* Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 719

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nerve Trigeminal
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Eye
  - \* Kidney
  - [ Nephropathy TGLs = 5 - 8 ]
  - \* Liver
  - \* Lung
  - [ Infiltration Cellular TGLs = 3 - 6+7 ]
  - \* Nose
  - \* Pancreas
  - Peripheral Nerve
  - Skeletal Muscle
  - [ Leiomyosarcoma TGLs = 4 - 19 ]
  - Spinal Cord
  - \* Spleen
  - \* Stomach, Glandular
- |  |               |                               |                                 |
|--|---------------|-------------------------------|---------------------------------|
|  | Cornea        | Hypercellularity              | Marked                          |
|  |               | Hypospermia                   | Mild                            |
|  |               | Inflammation                  | Acute, Minimal                  |
|  |               | Nephropathy                   | Chronicprogr, Moderate          |
|  |               | Basophilic Focus              |                                 |
|  |               | Infiltration Cellular         | Histiocyte, Mild                |
|  | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate                        |
|  | Acinus        | Atrophy                       | Mild                            |
|  | Acinus        | Hyperplasia                   | Mild                            |
|  | Axon, Sciatic | Degeneration                  | Minimal                         |
|  |               | Leiomyosarcoma                | Metastatic (Stomach, Glandular) |
|  | Axon          | Degeneration                  | Minimal                         |
|  | White Pulp    | Atrophy                       | Moderate                        |
|  |               | Extramedullary Hematopoiesis  | Minimal                         |
|  |               | Pigment                       | Minimal                         |
|  |               | Leiomyosarcoma                |                                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 158

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 719

**DOSE:** 3000 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300688

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Leiomyosarcoma TGLs = 1 - 18+20 ]

* Testis	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

---

PRIMARY CAUSE OF DEATH - Stomach, Glandular Leiomyosarcoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Skin
- \* Trachea
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Stomach, Glandular

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- \* Adrenal Medulla  
Blood Vessel
- \* Intestine Small, Jejunum  
[ Adenocarcinoma TGLs = 2 - 19 ]
- \* Kidney  
Renal Tubule
- \* Liver  
Bile Duct  
[ Dilation TGLs = 1 - 18 ]
- \* Lung  
Mesentery
- \* Nose
- \* Pancreas  
[ Adenoma TGLs = 3,4,5,6,7 - 20+21+22+23+24 ]
- \* Pituitary Gland
- Hyperplasia
- Mineral
- Adenocarcinoma
- Adenoma
- Nephropathy
- Clear Cell Focus
- Dilation
- Pigment
- Infiltration Cellular
- Inflammation
- Mineral
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Focal, Minimal
- Minimal
- Chronicprogr, Mild
- Mild
- Mild
- Histiocyte, Minimal
- Chronic Active, Minimal
- Minimal
- Moderate
- Multiple
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 159

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300689

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Prostate	Epithelium, Ventral	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Minimal
	Bilateral	Edema	Minimal
* Thymus		Atrophy	Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 645

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Parathyroid Gland       | * Preputial Gland           | * Salivary Glands        | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thyroid Gland             | * Trachea                |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow     |  | Hypercellularity              | Mild                  |
| * Kidney          | Renal Tubule                             | Cyst                          |                       |
|                   | Renal Tubule                             | Hyperplasia                   | Atypical, Mild        |
|                   | [ Nephropathy TGLs = 2 - 8 ]             | Nephropathy                   | Chronicprogr, Marked  |
| * Liver           |  | Basophilic Focus              |                       |
|                   |  | Clear Cell Focus              |                       |
|                   | Bile Duct                                | Hyperplasia                   | Minimal               |
|                   |  | Pigment                       | Minimal               |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Minimal   |
|                   | [ Infiltration Cellular TGLs = 5 - 6+7 ] |                               |                       |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal               |
|                   |  | Inflammation                  | Acute, Minimal        |
| * Pancreas        | Acinus                                   | Adenoma                       | Multiple              |
|                   | Acinus                                   | Hyperplasia                   | Marked                |
|                   | [ Adenoma TGLs = 4,6,7 - 20+21 ]         |                               |                       |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal               |
| * Prostate        | Ventral                                  | Inflammation                  | Granulomatous, Marked |
|                   | [ Inflammation TGLs = 1 - 18 ]           |                               |                       |
| * Seminal Vesicle | Bilateral                                | Inflammation                  | Acute, Mild           |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 160

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 645

**DOSE:** 3000 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300690

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Skin	Subcut Tiss	Fibroma	
[ Fibroma TGLs = 3 - 19 ]			
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Moderate
* Urinary Bladder		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH - Prostate Ventral Inflammation

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 631

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Liver
- \* Preputial Gland
- \* Skin
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Prostate
- \* Thyroid Gland
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Trachea
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Seminal Vesicle
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Adrenal Medulla
- Blood Vessel
- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Kidney
- [ Nephropathy TGLs = 2 - 8 ]
- \* Lung
- \* Nose
- \* Pancreas
- [ Adenoma TGLs = 1,3,4 - 18 ]
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- Thrombus
- Hyperplasia
- Mineral
- Hypercellularity
- Hypospermia
- Cardiomyopathy
- Hyperplasia
- Nephropathy
- Infiltration Cellular
- Inflammation
- Adenoma
- Hyperplasia
- Adenoma
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Mineral
- Degeneration
- Moderate
- Focal, Minimal
- Minimal
- Mild
- Marked
- Mild
- Mild
- Chronicprogr, Marked
- Histiocyte, Minimal
- Acute, Minimal
- Multiple
- Diffuse, Moderate
- Moderate
- Minimal
- Mild
- Minimal
- Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 161

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 631

**DOSE:** 3000 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300691

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Marked

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Brain                  | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Parathyroid Gland         |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                                   |                               |                        |
|-------------------|-----------------------------------|-------------------------------|------------------------|
| * Bone Marrow     |                                   | Hypercellularity              | Minimal                |
| * Epididymis      | Bilateral                         | Hypospermia                   | Mild                   |
| * Heart           |                                   | Cardiomyopathy                | Minimal                |
| * Kidney          |                                   | Infarct                       | Minimal                |
|                   |                                   | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |                                   | Clear Cell Focus              |                        |
|                   | Hepatocyte                        | Cytoplasmic Alteration        | Minimal                |
|                   |                                   | Necrosis                      | Minimal                |
|                   |                                   | Pigment                       | Mild                   |
| * Nose            | Olfactory Epi                     | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas        | Acinus                            | Adenoma                       | Multiple               |
|                   |                                   | Polyarteritis Nodosa          | Minimal                |
|                   | [ Adenoma TGLs = 1,2,3,4,5 - 18 ] |                               |                        |
| * Pituitary Gland | Pars Distalis                     | Hyperplasia                   | Moderate               |
|                   | Pars Distalis                     | Hypertrophy                   | Minimal                |
| * Spleen          |                                   | Extramedullary Hematopoiesis  | Mild                   |
|                   |                                   | Pigment                       | Minimal                |
| * Testis          | Bilateral, Germinal Epith         | Degeneration                  | Mild                   |
|                   | Bilateral                         | Polyarteritis Nodosa          | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 162

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300692

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Minimal

\* Thyroid Gland

C Cell

Adenoma

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 708

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Stomach, Glandular
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Islets, Pancreatic
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- [ Adenoma TGLs = 3 - 20 ]
- \* Preputial Gland
- [ Inflammation TGLs = 2 - 19 ]
- \* Prostate
- \* Seminal Vesicle
- [ Atrophy TGLs = 5 - 15 ]
- \* Skin
- [ Fibroma TGLs = 1 - 18 ]
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Adenoma
- Infarct
- Nephropathy
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Inflammation
- Squamous Cell Carcinoma
- Inflammation
- Atrophy
- Fibroma
- Focal, Minimal
- Marked
- Minimal
- Minimal
- Chronicprogr, Mild
- Minimal
- Mild
- Histiocyte, Minimal
- Moderate
- Multiple
- Marked
- Chronic Active, Marked
- Chronic Active, Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 164

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 708

**DOSE:** 3000 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300694

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Spleen		Extramedullary Hematopoiesis	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Interstit Cell	Hyperplasia	Focal, Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pituitary Gland
- \* Skin
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Stomach, Glandular

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Epididymis
- \* Heart
- \* Islets, Pancreatic
- \* Kidney
- \* Liver
- Hepatocyte
- Bile Duct
- \* Lung
- \* Nose
- \* Pancreas
- [ Adenoma TGLs = 1,2,3,4,5 - 18+19+20+21+22 ]
- \* Prostate
- \* Spleen
- Adenoma
- Hypospermia
- Cardiomyopathy
- Hyperplasia
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hyperplasia
- Necrosis
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Mild
- Minimal
- Minimal
- Chronicprogr, Moderate
- Minimal
- Minimal
- Minimal
- Mild
- Histiocyte, Mild
- Mild
- Multiple
- Chronic Active, Mild
- Mild
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 165

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300695

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Testis

Germinal Epith

Degeneration

Mild

Edema

Mild

\* Thymus

Atrophy

Mild

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Bone Marrow
- \* Eye
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Preputial Gland
- \* Skin
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla
- \* Heart
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Lymph Node, Mesenteric
- \* Nose
- \* Spleen
- \* Testis
- \* Thymus
- Hyperplasia
- Cardiomyopathy
- Parasite Metazoan
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Hepatocyte
- Bile Duct
- Alveolar Epith
- Olfactory Epi
- Interstitial Cell
- Hyperplasia
- Pigment
- Hyperplasia
- Infiltration Cellular
- Hyperplasia
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Atrophy
- Focal, Mild
- Minimal
- Chronicprogr, Moderate
- Minimal
- Minimal
- Mild
- Minimal
- Histiocyte, Mild
- Lymphocyte, Mild
- Moderate
- Minimal
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Testis
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Islets, Pancreatic
- \* Kidney
- \* Liver
- Hepatocyte
- Bile Duct
- [ Hepatocellular Adenoma TGLs = 2 - 19 ]
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Nose
- Olfactory Epi
- \* Pancreas
- Acinus
- [ Adenoma TGLs = 1 - 18 ]
- \* Spleen
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Hyperplasia
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hepatocellular Adenoma
- Hyperplasia
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Inflammation
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Focal, Minimal
- Minimal
- Minimal
- Mild
- Chronicprogr, Moderate
- Minimal
- Minimal
- Mild
- Histiocyte, Moderate
- Moderate
- Acute, Minimal
- Multiple
- Minimal
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 168

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300698

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

\* Thyroid Gland

C Cell

Adenoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 674

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Urinary Bladder
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Glandular
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
    - [ Adenoma TGLs = 2 - 19 ]
  - Blood Vessel
  - \* Bone Marrow
  - \* Brain
  - \* Heart
  - \* Kidney
    - Renal Tubule
    - Epithelium, Papilla
  - \* Liver
    - Hepatocyte
    - Bile Duct
  - \* Lung
    - [ Infiltration Cellular TGLs = 5 - 6+7 ]
  - \* Nose
  - \* Pancreas
    - Olfactory Epi
    - Acinus
    - Acinus
    - Acinus
- Adenoma
  - Aneurysm
  - Hypercellularity
  - Inflammation
  - Cardiomyopathy
  - Cyst
  - Hyperplasia
  - Nephropathy
  - Cytoplasmic Alteration
  - Hyperplasia
  - Pigment
  - Infiltration Cellular
  - Accumulation, Hyaline Droplet
  - Adenoma
  - Carcinoma
  - Hyperplasia
  - Polyarteritis Nodosa
- Minimal
  - Marked
  - Acute, Minimal
  - Mild
  - Minimal
  - Chronicprogr, Marked
  - Minimal
  - Minimal
  - Mild
  - Histiocyte, Moderate
  - Mild
  - Multiple
  - Marked
  - Mild

[ Adenoma TGLs = 4 - 21 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 674

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300699

ORGAN AND ACCOUNTABLE SITE STATUS

[ Carcinoma TGLs = 3-20 ]

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLs = 1 - 18 ]			
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Testis	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Skin Squamous Cell Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 170

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300700

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

\* Thyroid Gland

C Cell

Edema

Atrophy

Adenoma

Minimal

Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Testis
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Adenoma
- Nephropathy
- Clear Cell Focus
- Bile Duct
- Olfactory Epi
- Acinus
- Acinus
- Pars Distalis
- Pars Distalis
- Bilateral
- Focal, Minimal
- Minimal
- Minimal
- Chronicprogr, Mild
- Minimal
- Minimal
- Histiocyte, Minimal
- Granulomatous, Minimal
- Moderate
- Multiple
- Marked
- Minimal
- Minimal
- Mild
- Mild
- Minimal

[ Adenoma TGLs = 1 - 18 ]

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 171

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300701

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

\* Thyroid Gland

C Cell

Adenoma

[ Adenoma TGLs = 2 - 11 ]

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Mild
- \* Heart
- Cardiomyopathy
- Minimal
- \* Kidney
- Nephropathy
- Chronicprogr, Mild
- \* Liver
- Clear Cell Focus
- Pigment
- Minimal
- \* Lung
- Infiltration Cellular
- Histiocyte, Minimal
- \* Pancreas
- Acinus
- Adenoma
- Multiple
- Acinus
- Hyperplasia
- Marked
- [ Adenoma TGLs = 1,2,3,4,5 - 18 ]
- \* Pituitary Gland
- Pars Distalis
- Hypertrophy
- Minimal
- \* Spleen
- Extramedullary Hematopoiesis
- Mild
- \* Testis
- Interstitial Cell
- Pigment
- Minimal
- Germinal Epith
- Adenoma
- Multiple
- Bilateral
- Degeneration
- Minimal
- \* Thymus
- Edema
- Minimal
- Atrophy
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Seminal Vesicle
- \* Thymus
- Blood Vessel
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Skin
- \* Trachea
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Stomach, Glandular

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Prostate
- \* Spleen
- Bilateral
- Valve
- Hepatocyte
- Hepatocyte
- [ Infiltration Cellular TGLs = 8 - 6+7 ]
- Olfactory Epi
- Acinus
- [ Adenoma TGLs = 1,2,3,4,5 - 18+19+20+21+22 ]
- Pars Distalis
- Pars Distalis
- Dorsal, Epithelium, Lateral
- Hyperplasia
- Hypercellularity
- Hypospermia
- Cardiomyopathy
- Fibrosis
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hypertrophy
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Hypertrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Focal, Minimal
- Minimal
- Moderate
- Minimal
- Minimal
- Chronicprogr, Minimal
- Mild
- Mild
- Mild
- Histiocyte, Minimal
- Granulomatous, Minimal
- Minimal
- Multiple
- Mild
- Moderate
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 173

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300703

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Testis	Bilateral, Germinal Epith	Pigment	Mild
	Bilateral	Degeneration	Moderate
	[ Edema TGLs = 6 - 16+17 ]	Edema	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Parathyroid Gland       | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Trachea                 | * Urinary Bladder           |                          |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                               |                     |
|-------------------|--|-------------------------------|---------------------|
| * Heart           |  | Cardiomyopathy                | Minimal             |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Mild  |
| * Liver           |  | Clear Cell Focus              |                     |
|                   | Hepatocyte                               | Cytoplasmic Alteration        | Minimal             |
|                   | Bile Duct                                | Hyperplasia                   | Minimal             |
|                   |  | Pigment                       | Minimal             |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Marked  |
|                   |  | Inflammation                  | Granulomatous, Mild |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                     |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal             |
| * Pancreas        | Acinus                                   | Adenoma                       | Multiple            |
|                   | Acinus                                   | Hyperplasia                   | Marked              |
|                   | [ Adenoma TGLs = 2,3,4,5,6 - 18+19 ]     |                               |                     |
| * Pituitary Gland | Pars Distalis                            | Hypertrophy                   | Mild                |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                |
|                   |  | Pigment                       | Mild                |
| * Testis          | Bilateral, Germinal Epith                | Degeneration                  | Minimal             |
|                   |  | Edema                         | Minimal             |
|                   | Interstit Cell                           | Hyperplasia                   | Focal, Minimal      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 174

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300704

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

\* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lung
- \* Parathyroid Gland
- \* Skin
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Salivary Glands
- \* Spleen
- Renal Tubule
- Hepatocyte
- Bile Duct
- Hepatocyte
- Olfactory Epi
- Acinus
- Acinus
- [ Adenoma TGLs = 2 - 19 ]
- Pars Distalis
- [ Schwannoma Malignant TGLs = 1 - 18 ]
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Cyst
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hyperplasia
- Hypertrophy
- Mixed Cell Focus
- Pigment
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Hyperplasia
- Schwannoma Malignant
- Extramedullary Hematopoiesis
- Focal, Marked
- Mild
- Minimal
- Chronicprogr, Mild
- Minimal
- Minimal
- Minimal
- Mild
- Minimal
- Multiple
- Marked
- Marked
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 175

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300705

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Testis	Pigment	Mild
* Thymus	Edema	Minimal
	Atrophy	Minimal

---



Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300706

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testis                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

**MISSING**

- \* Parathyroid Gland

**PRESENT BUT NOT EXAMINED**

Testes

**OBSERVATIONS**

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Heart           | Endocardium                              | Schwannoma Malignant          |                        |
| * Kidney          | Renal Tubule                             | Cyst                          |                        |
|                   |  | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |  | Clear Cell Focus              |                        |
|                   | Hepatocyte                               | Cytoplasmic Alteration        | Mild                   |
|                   |  | Pigment                       | Mild                   |
| * Lung            | Alveolar Epith                           | Hyperplasia                   | Moderate               |
|                   |  | Infiltration Cellular         | Histiocyte, Mild       |
|                   | [ Infiltration Cellular TGLs = 6 - 6+7 ] |                               |                        |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                 |
| * Pancreas        | Acinus                                   | Adenoma                       | Multiple               |
|                   | Acinus                                   | Hyperplasia                   | Marked                 |
|                   |  | Polyarteritis Nodosa          | Minimal                |
|                   | [ Adenoma TGLs = 2,3,4 - 18+20+21 ]      |                               |                        |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Mild                   |
|                   | Pars Distalis                            | Hypertrophy                   | Minimal                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 176

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300706

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Skin		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 1 - 19 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Minimal
- \* Heart
- Polyarteritis Nodosa
- Minimal
- \* Intestine Large, Rectum
- Parasite Metazoan
- \* Kidney
- Nephropathy
- Chronicprogr, Moderate
- \* Liver
- Clear Cell Focus
- Hepatocellular Adenoma
- Bile Duct
- Hyperplasia
- Minimal
- Mixed Cell Focus
- Pigment
- Mild
- [ Hepatocellular Adenoma TGLs = 1 - 19 ]
- [ Mixed Cell Focus TGLs = 2 - 20 ]
- \* Lung
- Inflammation
- Granulomatous, Minimal
- \* Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Minimal
- \* Pancreas
- Acinus
- Hyperplasia
- Mild
- \* Pituitary Gland
- Pars Distalis
- Hyperplasia
- Mild
- Pars Distalis
- Hypertrophy
- Minimal
- \* Spleen
- Extramedullary Hematopoiesis
- Mild
- Pigment
- Minimal
- \* Testis
- Bilateral
- Polyarteritis Nodosa
- Mild
- \* Thymus
- Atrophy
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 177

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300707

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Adenoma

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Parathyroid Gland       |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                                     |                               |                        |
|-------------------|-------------------------------------|-------------------------------|------------------------|
| * Bone Marrow     |                                     | Hypercellularity              | Minimal                |
| * Heart           |                                     | Cardiomyopathy                | Minimal                |
| * Kidney          |                                     | Nephropathy                   | Chronicprogr, Mild     |
| * Liver           |                                     | Clear Cell Focus              |                        |
|                   | Bile Duct                           | Hyperplasia                   | Minimal                |
|                   |                                     | Pigment                       | Mild                   |
| * Lung            |                                     | Inflammation                  | Granulomatous, Minimal |
| * Nose            | Olfactory Epi                       | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas        | Acinus                              | Adenoma                       | Multiple               |
|                   | [ Adenoma TGLs = 1,2,3 - 18+19+20 ] |                               |                        |
| * Pituitary Gland | Pars Distalis                       | Hyperplasia                   | Mild                   |
|                   | Pars Distalis                       | Hypertrophy                   | Minimal                |
| * Spleen          |                                     | Extramedullary Hematopoiesis  | Minimal                |
|                   |                                     | Pigment                       | Minimal                |
| * Testis          |                                     | Edema                         | Minimal                |
| * Thymus          |                                     | Atrophy                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 534

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Heart
  - \* Intestine Large, Rectum
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Pancreas
  - \* Spleen
- [ Nephropathy TGLs = 1 - 18 ]
- [ Infiltration Cellular TGLs = 4 - 20 ]
- [ Infiltration Cellular TGLs = 3 - 19 ]
- |  |               |                              |                      |
|--|---------------|------------------------------|----------------------|
|  | Bilateral     | Hypercellularity             | Moderate             |
|  |               | Hypospermia                  | Mild                 |
|  |               | Cardiomyopathy               | Mild                 |
|  | Valve         | Fibrosis                     | Mild                 |
|  |               | Polyarteritis Nodosa         | Mild                 |
|  |               | Nephropathy                  | Chronicprogr, Marked |
|  | Hepatocyte    | Clear Cell Focus             | Minimal              |
|  |               | Cytoplasmic Alteration       | Histiocyte, Minimal  |
|  | Deep Cervical | Infiltration Cellular        | Histiocyte, Mild     |
|  | Lumbar        | Infiltration Cellular        | Histiocyte, Moderate |
|  | Deep Cervical | Pigment                      | Mild                 |
|  | Lumbar        | Pigment                      | Moderate             |
|  | Acinus        | Adenoma                      |                      |
|  |               | Extramedullary Hematopoiesis | Mild                 |
|  |               | Pigment                      | Minimal              |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 181

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 534

**DOSE:** 3000 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300711

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Testis

Bilateral, Germinal Epith

Degeneration

Mild

\* Thymus

Atrophy

Moderate

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 266

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testis                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                      |                |                              |                       |
|----------------------|----------------|------------------------------|-----------------------|
| * Bone Marrow        |                | Hypercellularity             | Mild                  |
| * Heart              |                | Cardiomyopathy               | Minimal               |
| * Islets, Pancreatic |                | Atrophy                      | Mild                  |
| * Kidney             |                | Nephropathy                  | Chronicprogr, Minimal |
| * Liver              | Hepatocyte     | Cytoplasmic Alteration       | Minimal               |
| * Lung               |                | Infiltration Cellular        | Histiocyte, Mild      |
|                      |                | Inflammation                 | Acute, Minimal        |
| * Nose               |                | Inflammation                 | Acute, Minimal        |
|                      | Respirat Epith | Squamous Metaplasia          | Minimal               |
| * Spleen             |                | Extramedullary Hematopoiesis | Minimal               |
|                      |                | Pigment                      | Mild                  |
| * Thymus             |                | Atrophy                      | Marked                |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Parathyroid Gland       | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Testis                    | * Trachea                | * Urinary Bladder          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                 |  |                               |                      |
|-----------------|--|-------------------------------|----------------------|
| * Bone Marrow   |  | Hypercellularity              | Minimal              |
| * Kidney        |  | Nephropathy                   | Chronicprogr, Mild   |
| * Liver         |  | Clear Cell Focus              |                      |
|                 | Hepatocyte                               | Cytoplasmic Alteration        | Minimal              |
|                 |  | Pigment                       | Mild                 |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Moderate |
|                 | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                      |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                 |
| * Pancreas      | Acinus                                   | Adenoma                       |                      |
|                 | [ Adenoma TGLs = 1 - 18 ]                |                               |                      |
| * Spleen        |  | Extramedullary Hematopoiesis  | Mild                 |
|                 |  | Pigment                       | Mild                 |
| * Thymus        |  | Atrophy                       | Mild                 |
| * Thyroid Gland | C Cell                                   | Hyperplasia                   | Moderate             |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Minimal
- \* Islets, Pancreatic
- Hyperplasia
- Mild
- \* Kidney
- Infarct
- Minimal
- \* Liver
- Nephropathy
- Chronicprogr, Mild
- Clear Cell Focus
- \* Lung
- Pigment
- Mild
- [ Infiltration Cellular TGLs = 6 - 6+7 ]
- Infiltration Cellular
- Histiocyte, Mild
- \* Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Moderate
- \* Pancreas
- Acinus
- Adenoma
- Multiple
- Acinus
- Hyperplasia
- Marked
- [ Adenoma TGLs = 2,3,4 - 18 ]
- [ Hyperplasia TGLs = 5 - 19 ]
- \* Spleen
- Extramedullary Hematopoiesis
- Mild
- Pigment
- Mild
- \* Testis
- Germinal Epith
- Degeneration
- Minimal
- Edema
- Minimal

Note: Left testis agenesis based upon gross findings.

Note: [TGLs = 1-NCL]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 184

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300714

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Parathyroid Gland       | * Pituitary Gland           | * Preputial Gland        | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |            |  |                               |                        |
|------------|--|-------------------------------|------------------------|
| * Heart    |  | Cardiomyopathy                | Minimal                |
|            | Valve                                    | Fibrosis                      | Minimal                |
| * Kidney   | Renal Tubule                             | Cyst                          |                        |
|            |  | Infarct                       | Minimal                |
|            |  | Nephropathy                   | Chronicprogr, Moderate |
|            | [ Cyst TGLs = 4 - 8 ]                    |                               |                        |
| * Liver    |  | Clear Cell Focus              |                        |
|            | Hepatocyte                               | Cytoplasmic Alteration        | Mild                   |
|            | Bile Duct                                | Hyperplasia                   | Minimal                |
| * Lung     |  | Infiltration Cellular         | Histiocyte, Moderate   |
|            |  | Inflammation                  | Granulomatous, Minimal |
|            | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                        |
| * Nose     | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas | Acinus                                   | Adenoma                       | Multiple               |
|            | [ Adenoma TGLs = 1,2 - 18+19 ]           |                               |                        |
| * Prostate | Epithelium, Ventral                      | Hyperplasia                   | Minimal                |
| * Spleen   |  | Extramedullary Hematopoiesis  | Mild                   |
|            |  | Pigment                       | Mild                   |
| * Testis   | Bilateral                                | Edema                         | Minimal                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 185

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300715

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus	Bilateral	Polyarteritis Nodosa Atrophy	Minimal Minimal
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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 628

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Salivary Glands
- \* Thyroid Gland
- Blood Vessel
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Preputial Gland
- \* Skin
- \* Urinary Bladder
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Prostate
- \* Stomach, Glandular

MISSING

- \* Thymus

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- \* Adrenal Cortex
    - [ Hemorrhage TGLs = 2 - 11 ]
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Lymph Node, Mandibular
  - \* Pituitary Gland
    - [ Adenoma TGLs = 3 - 11 ]
  - \* Spleen
  - \* Stomach, Forestomach
    - [ Hyperplasia TGLs = 5 - 18 ]
  - \* Testis
    - [ Degeneration TGLs = 1 - 16+17 ]
- |  |                              |                          |
|--|------------------------------|--------------------------|
|  | Degeneration                 | Cystic, Minimal          |
|  | Hemorrhage                   | Mild                     |
|  | Nephropathy                  | Chronicprogr, Marked     |
|  | Pigment                      | Minimal                  |
|  | Infiltration Cellular        | Histiocyte, Minimal      |
|  | Inflammation                 | Chronic Active, Moderate |
|  | Adenoma                      |                          |
|  | Atrophy                      | Marked                   |
|  | Extramedullary Hematopoiesis | Minimal                  |
|  | Pigment                      | Mild                     |
|  | Hyperplasia                  | Marked                   |
|  | Degeneration                 | Marked                   |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

---

**ANIMAL ID:** 186

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 628

**DOSE:** 3000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300716

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Parathyroid Gland
- \* Salivary Glands
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Testis
- \* Urinary Bladder
- Blood Vessel
- \* Epididymis
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Kidney
  - Renal Tubule
    - Cyst
    - Nephropathy
  - [ Cyst TGLs = 1 - 19 ]
- \* Liver
  - Hepatocyte
    - Clear Cell Focus
    - Cytoplasmic Alteration
    - Pigment
    - Infiltration Cellular
  - Accumulation, Hyaline Droplet
- \* Lung
  - Histiocyte, Minimal
- \* Nose
  - Minimal
- \* Pancreas
  - Acinus
    - Adenoma
    - Hyperplasia
  - Acinus
    - Multiple
    - Marked
  - [ Adenoma TGLs = 2 - 9+20 ]
- \* Pituitary Gland
  - Pars Distalis
    - Hyperplasia
- \* Spleen
  - Extramedullary Hematopoiesis
  - Pigment
- \* Thymus
  - Atrophy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

**ANIMAL ID:** 188

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300718

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**PRESENT BUT NOT EXAMINED**

Testes

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Bone Marrow		Congestion	Minimal
		Hypercellularity	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
		Pigment	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Mild
		Pigment	Mild
	[ Infiltration Cellular TGLs = 1 - 12 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[ Hemorrhage TGLs = 3 - 9 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Adenoma	Multiple
	Acinus	Hyperplasia	Marked
	[ Adenoma TGLs = 2-18 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 188

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300718

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Urinary Bladder
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- Bile Duct
- Alveolar Epith
- Olfactory Epi
- Respirat Epith
- Pars Distalis
- Pars Distalis
- Bilateral
- Hypertrophy
- Hypercellularity
- Polyarteritis Nodosa
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Pigment
- Hyperplasia
- Accumulation, Hyaline Droplet
- Accumulation, Hyaline Droplet
- Polyarteritis Nodosa
- Hyperplasia
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Polyarteritis Nodosa
- Atrophy
- Focal, Minimal
- Moderate
- Minimal
- Chronicprogr, Moderate
- Minimal
- Mild
- Minimal
- Moderate
- Minimal
- Minimal
- Moderate
- Minimal
- Mild
- Minimal
- Mild
- Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

---

**ANIMAL ID:** 189

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300719

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Adenoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Trachea
- Blood Vessel
- \* Epididymis
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Thyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla
- \* Intestine Large, Rectum
- \* Kidney
- [ Nephropathy TGLs = 1 - 8 ]
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- [ Adenoma TGLs = 2 - 19 ]
- \* Pituitary Gland
- \* Spleen
- \* Testis
- Hyperplasia
- Parasite Metazoan
- Dilation
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Pigment
- Inflammation
- Accumulation, Hyaline Droplet
- Adenoma
- Polyarteritis Nodosa
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Edema
- Polyarteritis Nodosa
- Focal, Moderate
- Minimal
- Chronicprogr, Moderate
- Minimal
- Minimal
- Granulomatous, Minimal
- Mild
- Multiple
- Mild
- Marked
- Mild
- Mild
- Minimal
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 190

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300720

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Minimal

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Intestine Small, Duodenum

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Nose
  - \* Pancreas
  - \* Pituitary Gland
  - \* Spleen
  - \* Testis
  - \* Thymus
- Hepatocyte
- Olfactory Epi
- Acinus
- [ Adenoma TGLs = 1,2,3,4,5 - 18 ]
- Pars Distalis
- Pars Distalis
- Germinal Epith
- Bilateral
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Pigment
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Edema
- Atrophy
- Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Mild
- Moderate
- Multiple
- Minimal
- Minimal
- Mild
- Minimal
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 191

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300721

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Hyperplasia

Marked

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Parathyroid Gland       | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Bone Marrow     |  | Hypercellularity              | Mild                   |
| * Kidney          |  | Infarct                       | Minimal                |
|                   |  | Nephropathy                   | Chronicprogr, Mild     |
| * Liver           |  | Clear Cell Focus              |                        |
|                   |  | Hepatocellular Adenoma        |                        |
|                   |  | Pigment                       | Mild                   |
|                   | [ Hepatocellular Adenoma TGLs = 6 - 22 ] |                               |                        |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild       |
|                   | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                        |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas        | Acinus                                   | Adenoma                       | Multiple               |
|                   | Acinus                                   | Hyperplasia                   | Marked                 |
|                   | [ Adenoma TGLs = 2,4,5 - 18+19+20 ]      |                               |                        |
| * Pituitary Gland | Pars Distalis                            | Hypertrophy                   | Minimal                |
| * Skin            | Epidermis                                | Hyperplasia                   | Mild                   |
|                   |  | Inflammation                  | Chronic Active, Marked |
|                   |  | Ulcer                         | Mild                   |
|                   | [ Inflammation TGLs = 1 - 21 ]           |                               |                        |
| * Testis          | Bilateral                                | Edema                         | Minimal                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 193

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300723

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 657

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | Blood Vessel                | * Bone                   | * Epididymis               |
| * Esophagus               | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                  |                |                               |                       |
|------------------|----------------|-------------------------------|-----------------------|
| * Adrenal Cortex |                | Necrosis                      | Minimal               |
| * Bone Marrow    |                | Hypercellularity              | Moderate              |
| * Brain          |                | Necrosis                      | Moderate              |
| * Eye            | Cornea         | Inflammation                  | Acute, Minimal        |
| * Heart          |                | Cardiomyopathy                | Minimal               |
| * Kidney         | Renal Tubule   | Dilation                      | Mild                  |
|                  |                | Nephropathy                   | Chronicprogr, Minimal |
| * Liver          |                | Necrosis                      | Marked                |
| * Nose           | Olfactory Epi  | Accumulation, Hyaline Droplet | Moderate              |
|                  | Respirat Epith | Accumulation, Hyaline Droplet | Minimal               |
| * Testis         | Bilateral      | Edema                         | Minimal               |
| * Thymus         |                | Atrophy                       | Mild                  |

PRIMARY CAUSE OF DEATH - Liver Necrosis

CONTRIBUTORY CAUSE OF DEATH - Brain Necrosis

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Trachea                   | * Urinary Bladder        |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                              |                        |
|-------------------|--|------------------------------|------------------------|
| * Bone Marrow     |  | Hypercellularity             | Minimal                |
| * Kidney          |  | Nephropathy                  | Chronicprogr, Minimal  |
| * Liver           |  | Clear Cell Focus             |                        |
|                   | Hepatocyte                               | Cytoplasmic Alteration       | Minimal                |
|                   | Bile Duct                                | Hyperplasia                  | Minimal                |
|                   |  | Pigment                      | Minimal                |
| * Lung            |  | Infiltration Cellular        | Histiocyte, Mild       |
|                   |  | Inflammation                 | Granulomatous, Minimal |
| * Pancreas        | Acinus                                   | Adenoma                      | Multiple               |
|                   | Acinus                                   | Hyperplasia                  | Marked                 |
|                   | [ Adenoma TGLs = 1,2,3,4 - 18+19+20+21 ] |                              |                        |
| * Pituitary Gland | Pars Distalis                            | Hypertrophy                  | Mild                   |
| * Spleen          |  | Extramedullary Hematopoiesis | Mild                   |
|                   |  | Pigment                      | Minimal                |
| * Testis          |  | Edema                        | Minimal                |
|                   | Interstit Cell                           | Hyperplasia                  | Focal, Minimal         |
| * Thymus          |  | Atrophy                      | Mild                   |
| * Thyroid Gland   | C Cell                                   | Adenoma                      |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Parathyroid Gland         | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                                |                               |                    |
|-------------------|--------------------------------|-------------------------------|--------------------|
| * Epididymis      |                                | Hypospermia                   | Minimal            |
| * Heart           |                                | Cardiomyopathy                | Minimal            |
| * Kidney          |                                | Nephropathy                   | Chronicprogr, Mild |
| * Liver           |                                | Clear Cell Focus              |                    |
|                   |                                | Necrosis                      | Minimal            |
|                   |                                | Pigment                       | Mild               |
| * Nose            | Olfactory Epi                  | Accumulation, Hyaline Droplet | Moderate           |
| * Pancreas        | Acinus                         | Adenoma                       | Multiple           |
|                   | Acinus                         | Hyperplasia                   | Marked             |
|                   | [ Adenoma TGLs = 1,2 - 18+19 ] |                               |                    |
| * Pituitary Gland | Pars Distalis                  | Hyperplasia                   | Minimal            |
|                   | Pars Distalis                  | Hypertrophy                   | Minimal            |
| * Spleen          |                                | Extramedullary Hematopoiesis  | Mild               |
|                   |                                | Pigment                       | Mild               |
| * Testis          | Germinal Epith                 | Degeneration                  | Minimal            |
|                   | Bilateral                      | Edema                         | Mild               |
| * Thymus          |                                | Atrophy                       | Minimal            |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | Blood Vessel              | * Bone                      | * Brain                  |
| * Epididymis               | * Esophagus               | * Eye                       | * Harderian Gland        |
| * Intestine Large, Cecum   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Parathyroid Gland       | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                          |                                  |                               |                        |
|--------------------------|----------------------------------|-------------------------------|------------------------|
| * Adrenal Cortex         |                                  | Hypertrophy                   | Focal, Minimal         |
| * Bone Marrow            |                                  | Hypercellularity              | Mild                   |
| * Heart                  |                                  | Cardiomyopathy                | Minimal                |
| * Intestine Large, Colon |                                  | Parasite Metazoan             |                        |
| * Kidney                 |                                  | Nephropathy                   | Chronicprogr, Mild     |
| * Liver                  |                                  | Clear Cell Focus              |                        |
|                          | Bile Duct                        | Hyperplasia                   | Minimal                |
|                          |                                  | Pigment                       | Mild                   |
| * Lung                   |                                  | Infiltration Cellular         | Histiocyte, Minimal    |
|                          |                                  | Inflammation                  | Granulomatous, Minimal |
| * Nose                   | Olfactory Epi                    | Accumulation, Hyaline Droplet | Moderate               |
| * Pancreas               | Acinus                           | Adenoma                       | Multiple               |
|                          | Acinus                           | Hyperplasia                   | Minimal                |
|                          | [ Adenoma TGLs = 1,2,3 - 18+19 ] |                               |                        |
| * Pituitary Gland        | Pars Distalis                    | Hyperplasia                   | Minimal                |
| * Spleen                 |                                  | Extramedullary Hematopoiesis  | Minimal                |
|                          |                                  | Pigment                       | Mild                   |
| * Testis                 | Bilateral                        | Edema                         | Minimal                |
| * Thymus                 |                                  | Atrophy                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Prostate
- \* Stomach, Glandular
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thymus
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lung
- \* Preputial Gland
- \* Skin
- \* Trachea

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                                |                               |                        |
|-------------------|--------------------------------|-------------------------------|------------------------|
| * Adrenal Cortex  |                                | Hyperplasia                   | Focal, Mild            |
| * Bone Marrow     |                                | Hypercellularity              | Minimal                |
| * Heart           |                                | Cardiomyopathy                | Minimal                |
| * Kidney          | Epithelium, Papilla            | Hyperplasia                   | Minimal                |
|                   |                                | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |                                | Angiectasis                   | Minimal                |
|                   |                                | Clear Cell Focus              |                        |
|                   | Hepatocyte                     | Cytoplasmic Alteration        | Minimal                |
|                   | Hepatocyte                     | Hypertrophy                   | Minimal                |
|                   |                                | Pigment                       | Mild                   |
| * Nose            | Olfactory Epi                  | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas        | Acinus                         | Adenoma                       | Multiple               |
|                   | [ Adenoma TGLs = 1,2 - 18+19 ] |                               |                        |
| * Pituitary Gland | Pars Distalis                  | Hypertrophy                   | Minimal                |
| * Spleen          |                                | Extramedullary Hematopoiesis  | Mild                   |
|                   |                                | Pigment                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 198

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300728

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

Polyarteritis Nodosa

Minimal

Squamous Cell Papilloma

[ Squamous Cell Papilloma TGLs = 3 - 9 ]

\* Testis

Bilateral

Polyarteritis Nodosa

Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 713

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Parathyroid Gland
- \* Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Nose
  - \* Pancreas
  - \* Skin
  - \* Spleen
  - \* Testis
- [ Fibroma TGLs = 1 - 18 ]
- Pelvis
  - Hepatocyte
  - Olfactory Epi
  - Acinus
  - Subcut Tiss
  - Interstit Cell
  - Bilateral
- Hypercellularity
  - Cardiomyopathy
  - Dilation
  - Nephropathy
  - Cytoplasmic Alteration
  - Pigment
  - Accumulation, Hyaline Droplet
  - Hyperplasia
  - Fibroma
  - Extramedullary Hematopoiesis
  - Pigment
  - Adenoma
  - Polyarteritis Nodosa
- Minimal
  - Minimal
  - Minimal
  - Chronicprogr, Moderate
  - Minimal
  - Minimal
  - Moderate
  - Marked
  - Mild
  - Mild
  - Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | Blood Vessel              | * Bone                      | * Brain                  |
| * Epididymis               | * Esophagus               | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Parathyroid Gland       | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

MISSING

- \* Thymus

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                   |  |                               |                          |
|-------------------|--|-------------------------------|--------------------------|
| * Adrenal Medulla |  | Hyperplasia                   | Focal, Marked            |
| * Bone Marrow     |  | Hypercellularity              | Mild                     |
| * Eye             | Retina                                   | Dysplasia                     | Minimal                  |
|                   | Bilateral, Cornea                        | Inflammation                  | Acute, Mild              |
| * Heart           |  | Cardiomyopathy                | Minimal                  |
| * Kidney          | Renal Tubule                             | Cyst                          |                          |
|                   | Epithelium, Papilla                      | Hyperplasia                   | Minimal                  |
|                   |  | Nephropathy                   | Chronicprogr, Marked     |
|                   | [ Nephropathy TGLs = 1 - 8 ]             |                               |                          |
| * Liver           | Hepatocyte                               | Clear Cell Focus              |                          |
|                   |  | Cytoplasmic Alteration        | Minimal                  |
|                   |  | Pigment                       | Mild                     |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Minimal      |
|                   | [ Infiltration Cellular TGLs = 9 - 6+7 ] |                               |                          |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                  |
| * Pancreas        | Acinus                                   | Adenoma                       | Multiple                 |
|                   |  | Inflammation                  | Chronic Active, Moderate |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 200

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300730

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Adenoma TGLs = 2,3,4,5,7 - 18 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 8 - 11 ]			
* Prostate			
Note: Ganglioma.			
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Mild



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 201

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300731

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Mild
	Interstit Cell	Hyperplasia	Focal, Mild
[ Degeneration	TGLs = 1-16+17 ]		
* Thymus		Atrophy	Minimal

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 202

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | Blood Vessel             | * Bone                      | * Brain                  |
| * Epididymis               | * Esophagus              | * Eye                       | * Harderian Gland        |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Parathyroid Gland      | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle        | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Trachea                | * Urinary Bladder           |                          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |                                      |                               |                     |
|---------------------------|--------------------------------------|-------------------------------|---------------------|
| * Adrenal Medulla         |                                      | Hyperplasia                   | Focal, Minimal      |
| * Bone Marrow             |                                      | Hypercellularity              | Minimal             |
| * Heart                   |                                      | Cardiomyopathy                | Minimal             |
| * Intestine Large, Rectum |                                      | Parasite Metazoan             |                     |
| * Kidney                  | Papilla                              | Edema                         | Minimal             |
|                           |                                      | Nephropathy                   | Chronicprogr, Mild  |
| * Liver                   |                                      | Clear Cell Focus              |                     |
|                           | Hepatocyte                           | Cytoplasmic Alteration        | Moderate            |
|                           |                                      | Eosinophilic Focus            |                     |
|                           | Bile Duct                            | Hyperplasia                   | Minimal             |
|                           | Hepatocyte                           | Hypertrophy                   | Mild                |
|                           |                                      | Pigment                       | Moderate            |
|                           | [ Eosinophilic Focus TGLs = 5 - 12 ] |                               |                     |
| * Lung                    |                                      | Infiltration Cellular         | Histiocyte, Minimal |
| * Nose                    | Olfactory Epi                        | Accumulation, Hyaline Droplet | Minimal             |
| * Pancreas                | Acinus                               | Adenoma                       | Multiple            |
|                           | Acinus                               | Hyperplasia                   | Mild                |
|                           | [ Adenoma TGLs = 2,3 - 19 ]          |                               |                     |
| * Pituitary Gland         | Pars Distalis                        | Hyperplasia                   | Mild                |
|                           | Pars Distalis                        | Hypertrophy                   | Mild                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 202

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300732

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Moderate
	[ Degeneration TGLs = 4-16+17 ]		
* Thymus		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 1 - 18 ]		
* Thyroid Gland	Follicular Cel	Adenoma	

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 203

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 395

**DOSE:** 10000 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300733

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Degeneration	Interstit Cell	Hyperplasia	Focal, Minimal
* Thymus	TGLs = 1,2-16+17 ]	Atrophy	Moderate

---

PRIMARY CAUSE OF DEATH - Brain Necrosis

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 204

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300734

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Testis	Bilateral, Germinal Epith	Pigment	Mild
		Degeneration	Marked
		Edema	Moderate
	Interstit Cell	Hyperplasia	Focal, Mild
[ Degeneration	TGLs = 1-16+17 ]		
* Thymus		Atrophy	Mild

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 205

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300735

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery

Note: Cyst of indeterminate origin = 1 -18. The term "cyst" is not available as a term for mesentery under TDMSE.

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Glands, Respirat Epith	Dilation	Mild
* Pancreas	Acinus	Adenoma	
	[ Adenoma TGLs = 7 - 21 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Hypertrophy	Moderate
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Tunic	Edema	Moderate
	Bilateral	Edema	Moderate
	Bilateral, Seminif Tub	Mineral	Moderate
	Bilateral	Polyarteritis Nodosa	Minimal
	[ Degeneration TGLs = 3-16+17 ]		
* Thymus		Atrophy	Mild



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 206

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- Blood Vessel
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Preputial Gland
- \* Skin
- \* Trachea
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Stomach, Glandular

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla [ Pheochromocytoma Malignant TGLs = 1 - 19 ]
- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Kidney
- \* Liver [ Cyst TGLs = 5 - 20 ]
- Pheochromocytoma Malignant
- Hypercellularity
- Hypospermia
- Cardiomyopathy
- Fibrosis
- Cyst
- Edema
- Hyperplasia
- Infarct
- Nephropathy
- Basophilic Focus
- Cytoplasmic Alteration
- Eosinophilic Focus
- Necrosis
- Pigment
- Moderate
- Marked
- Minimal
- Minimal
- Mild
- Minimal
- Minimal
- Chronicprogr, Moderate
- Moderate
- Minimal
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 206

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300736

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Infiltration Cellular Inflammation	Histiocyte, Mild Granulomatous, Minimal
	[ Infiltration Cellular TGLs = 4 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Pancreas	Acinus	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Hypertrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Interstit Cell	Hyperplasia	Focal, Mild
	Bilateral	Polyarteritis Nodosa	Mild
	[ Degeneration TGLs = 3-16+17 ]		
* Thymus		Atrophy	Moderate

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 207

TRT#: 9

SEX: Male

DAY ON TEST: 295

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Urinary Bladder
- Blood Vessel
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Preputial Gland
- \* Skin
- \* Thymus
- \* Bone
- \* Heart
- \* Intestine Small, Duodenum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thyroid Gland
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Eye

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla [ Pheochromocytoma Malignant TGLs = 3 - 11+18 ] Pheochromocytoma Malignant
- \* Bone Marrow Hypercellularity Moderate
- \* Epididymis [ Hypospermia TGLs = 2 - 14 ] Bilateral Hypospermia Marked
- \* Kidney Papilla Edema Minimal  
Nephropathy Chronicprogr, Minimal
- \* Liver Hepatocyte Cytoplasmic Alteration Moderate  
Hepatocyte Hypertrophy Minimal
- \* Nose Olfactory Epi Accumulation, Hyaline Droplet Mild
- \* Testis Interstit Cell Adenoma  
Bilateral, Germinal Epith Degeneration Marked  
[ Degeneration TGLs = 1-16+17 ]

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 208

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Parathyroid Gland       | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           |                          |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |               |  |                        |                        |
|---------------|--|------------------------|------------------------|
| * Bone        | Cartilage, Joint                         | Degeneration           | Minimal                |
| * Bone Marrow |  | Hypercellularity       | Minimal                |
| * Epididymis  | Bilateral                                | Hypospermia            | Marked                 |
|               | [ Hypospermia TGLs = 3 - 14 ]            |                        |                        |
| * Heart       | Valve                                    | Fibrosis               | Mild                   |
| * Kidney      | Papilla                                  | Edema                  | Mild                   |
|               | Epithelium, Papilla                      | Hyperplasia            | Minimal                |
|               |  | Infarct                | Minimal                |
|               |  | Nephropathy            | Chronicprogr, Moderate |
|               | [ Nephropathy TGLs = 7 - 8 ]             |                        |                        |
| * Liver       |  | Basophilic Focus       |                        |
|               |  | Clear Cell Focus       |                        |
|               | Hepatocyte                               | Cytoplasmic Alteration | Marked                 |
|               |  | Hepatocellular Adenoma |                        |
|               |  | Necrosis               | Minimal                |
|               |  | Pigment                | Moderate               |
|               | [ Hepatocellular Adenoma TGLs = 1 - 18 ] |                        |                        |
| * Lung        | Alveolar Epith                           | Hyperplasia            | Minimal                |
|               |  | Infiltration Cellular  | Histiocyte, Mild       |
|               |  | Inflammation           | Granulomatous, Mild    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 208

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300738

ORGAN AND ACCOUNTABLE SITE STATUS

	[ Hyperplasia TGLs = 6 - 20 ]		
	[ Infiltration Cellular TGLs = 5 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Adenoma	Multiple
	[ Adenoma TGLs = 4 - 19 ]		
* Pituitary Gland	Pars Distalis	Hypertrophy	Moderate
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Germinal Epith	Degeneration	Marked
	Seminif Tub	Dysgenesis	Mild
	Bilateral	Edema	Mild
	Interstit Cell	Hyperplasia	Focal, Mild
	[ Degeneration TGLs = 2-16+17 ]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 209

TRT#: 9

SEX: Male

DAY ON TEST: 3

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Epididymis
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Preputial Gland
- \* Prostate
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Brain
- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
- \* Hypocellularity
- \* Mild
- \* Kidney
- \* Mineral
- \* Minimal
- \* Lymph Node, Mesenteric
- \* Atrophy
- \* Moderate
- \* Spleen
- \* White Pulp
- \* Atrophy
- \* Mild
- \* Testis
- \* Seminif Tub
- \* Dysgenesis
- \* Minimal
- Note: Testes appear to have spermatogenic epithelium, supporting degeneration in older animals with small testes.
- \* Thymus
- \* Atrophy
- \* Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 210

TRT#: 9

SEX: Male

DAY ON TEST: 673

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                              |                     |
|-------------------|--|------------------------------|---------------------|
| * Epididymis      | Bilateral                                | Hypospermia                  | Marked              |
| * Heart           |  | Cardiomyopathy               | Minimal             |
| * Kidney          | Papilla                                  | Edema                        | Mild                |
|                   |  | Infarct                      | Minimal             |
| * Liver           |  | Clear Cell Focus             |                     |
|                   | Hepatocyte                               | Cytoplasmic Alteration       | Mild                |
|                   |  | Hepatocellular Adenoma       |                     |
|                   |  | Pigment                      | Minimal             |
|                   | [ Hepatocellular Adenoma TGLs = 2 - 19 ] |                              |                     |
| * Lung            |  | Infiltration Cellular        | Histiocyte, Minimal |
|                   | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                              |                     |
| * Mammary Gland   |  | Fibroadenoma                 |                     |
|                   | [ Fibroadenoma TGLs = 1 - 18 ]           |                              |                     |
| * Pituitary Gland | Pars Distalis                            | Hypertrophy                  | Moderate            |
| * Spleen          |  | Extramedullary Hematopoiesis | Mild                |
|                   |  | Pigment                      | Minimal             |
| * Testis          | Bilateral, Germinal Epith                | Degeneration                 | Marked              |
|                   | [ Degeneration TGLs = 4 - 16+17 ]        |                              |                     |
| * Thymus          |  | Atrophy                      | Moderate            |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 210

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 673

**DOSE:** 10000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300740

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 212

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lung
- \* Preputial Gland
- \* Skin
- \* Trachea

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Epididymis      Bilateral      Hypospermia      Marked  
     [ Hypospermia    TGLs = 4 - 14 ]
- \* Heart      Cardiomyopathy      Minimal
- \* Intestine Large, Rectum      Parasite Metazoan
- \* Kidney      Papilla      Edema      Mild  
     Papilla      Hemorrhage      Minimal  
     Nephropathy      Chronicprogr, Mild
- \* Liver      Basophilic Focus
- Clear Cell Focus
- Hepatocyte      Cytoplasmic Alteration      Minimal
- Bile Duct      Hyperplasia      Minimal
- Pigment      Moderate
- [ Clear Cell Focus    TGLs = 7 - 12 ]
- \* Nose      Olfactory Epi      Accumulation, Hyaline Droplet      Moderate
- \* Pancreas      Acinus      Adenoma      Multiple  
     [ Adenoma    TGLs = 1,2,3 - 18+19 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 212

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300742

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Hypertrophy	Moderate
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
		Edema	Minimal
	Interstit Cell	Hyperplasia	Focal, Mild
	[ Degeneration TGLs = 8 - 16+17 ]		
* Thymus		Atrophy	Mild

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 213

TRT#: 9

SEX: Male

DAY ON TEST: 699

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Prostate
- \* Thyroid Gland
- \* Bone
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Salivary Glands
- \* Urinary Bladder
- \* Brain
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Preputial Gland
- \* Stomach, Glandular

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla [ Pheochromocytoma Complex TGLs = 3 - 11 ] Pheochromocytoma Complex
- Blood Vessel Mineral Mild
- \* Bone Marrow Hypercellularity Moderate
- \* Epididymis Bilateral Hypospermia Marked
- \* Eye Bilateral, Cornea Inflammation Acute, Mild
- \* Heart Artery Cardiomyopathy Minimal
- \* Kidney Papilla Mineral Minimal
- Papilla Edema Moderate
- Hemorrhage Mild
- Infarct Minimal
- Mineral Minimal
- Nephropathy Chronicprogr, Minimal
- \* Liver Basophilic Focus
- Hepatocyte Cytoplasmic Alteration Minimal
- Bile Duct Hyperplasia Minimal
- Hepatocyte Hypertrophy Mild
- Pigment Mild
- \* Lung Inflammation Chronic Active, Mild
- \* Lymph Node, Mesenteric Atrophy Minimal
- \* Nose Inflammation Acute, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 213

TRT#: 9

SEX: Male

DAY ON TEST: 699

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300743

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hypertrophy	Moderate
* Skin		Schwannoma Malignant	
	[ Schwannoma Malignant TGLs = 1 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Minimal
	White Pulp	Hyperplasia	Mild
		Pigment	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	[ Degeneration TGLs = 2 - 16+17 ]		
* Thymus		Atrophy	Marked
* Trachea		Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH - Skin Schwannoma Malignant

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 214

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Preputial Gland
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Pancreas
  - \* Pituitary Gland
  - \* Prostate
- [ Infiltration Cellular TGLs = 4 - 6+7 ]
- [ Adenoma TGLs = 2,3 - 19+20 ]
- [ Carcinoma TGLs = 1 - 18 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 214

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300744

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Testis	Germinal Epith	Degeneration	Marked
	Bilateral, Seminif Tub	Dysgenesis	Mild
	Bilateral	Edema	Moderate
	Bilateral, Interstit Cell	Hyperplasia	Focal, Minimal
	[ Degeneration TGLs = 5 - 16+17 ]		
* Thymus		Atrophy	Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 215

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Preputial Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Thymus
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                      |               |                               |                      |
|----------------------|---------------|-------------------------------|----------------------|
| * Bone Marrow        |               | Hypercellularity              | Minimal              |
| * Epididymis         | Bilateral     | Hypospermia                   | Marked               |
| * Heart              |               | Cardiomyopathy                | Minimal              |
| * Islets, Pancreatic |               | Hyperplasia                   | Minimal              |
| * Kidney             | Papilla       | Edema                         | Mild                 |
|                      | Pelvis        | Inflammation                  | Chronic Active, Mild |
|                      |               | Nephropathy                   | Chronicprogr, Mild   |
| * Liver              |               | Basophilic Focus              |                      |
|                      |               | Clear Cell Focus              |                      |
|                      | Hepatocyte    | Cytoplasmic Alteration        | Moderate             |
|                      | Hepatocyte    | Hypertrophy                   | Minimal              |
|                      |               | Pigment                       | Moderate             |
| * Nose               | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate             |
| * Pancreas           | Acinus        | Adenoma                       |                      |
|                      | Acinus        | Hyperplasia                   | Mild                 |
| * Pituitary Gland    | Pars Distalis | Hyperplasia                   | Mild                 |
|                      | Pars Distalis | Hypertrophy                   | Mild                 |
| * Prostate           | Ventral       | Inflammation                  | Chronic, Moderate    |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 215

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300745

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle	Bilateral	Inflammation	Chronic Active, Minimal
* Skin	Pinna	Neural Crest Tumor	
[ Neural Crest Tumor	TGLs = 1 - 19 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
		Edema	Mild
	Interstitial Cell	Hyperplasia	Focal, Minimal
[ Degeneration	TGLs = 2 - 16+17 ]		
* Thyroid Gland	C Cell	Adenoma	
	Follicular Cell	Adenoma	

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 216

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular
- Blood Vessel
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Trachea
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- Pheochromocytoma Malignant
- Hypercellularity
- Hypospermia
- Fibrosis
- Thrombus
- Edema
- Hemorrhage
- Hyperplasia
- Infarct
- Nephropathy
- Clear Cell Focus
- Hepatocyte
- Bile Duct
- Accumulation, Hyaline Droplet
- Adenoma
- Mild
- Marked
- Minimal
- Mild
- Moderate
- Minimal
- Minimal
- Chronicprogr, Minimal
- Mild
- Minimal
- Mild
- Histiocyte, Minimal
- Granulomatous, Minimal
- Minimal

[ Infiltration Cellular TGLs = 1 - 6+7 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 216

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300746

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Adenoma TGLs = 3 - 18 ]

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
		Edema	Mild
	Interstit Cell	Hyperplasia	Focal, Marked
	[ Degeneration TGLs = 2 - 16+17 ]		
* Thymus		Atrophy	Mild

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 217

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | Blood Vessel              | * Bone                      | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Parathyroid Gland       | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                  |   |                        |                        |
|------------------|---|------------------------|------------------------|
| * Adrenal Cortex |   | Degeneration           | Cystic, Minimal        |
| * Bone Marrow    |   | Hypercellularity       | Moderate               |
| * Epididymis     | Bilateral                                     | Hypospermia            | Marked                 |
| * Heart          |   | Cardiomyopathy         | Minimal                |
|                  | Valve   | Fibrosis               | Moderate               |
|                  | Valve   | Thrombus               | Minimal                |
| * Kidney         | Papilla                                       | Edema                  | Moderate               |
|                  | Epithelium, Papilla                           | Hyperplasia            | Mild                   |
|                  |   | Infarct                | Mild                   |
|                  |   | Nephropathy            | Chronicprogr, Moderate |
|                  | [ Nephropathy TGLs = 4 - 8 ]                  |                        |                        |
| * Liver          |   | Basophilic Focus       |                        |
|                  |   | Clear Cell Focus       |                        |
|                  | Hepatocyte                                    | Cytoplasmic Alteration | Moderate               |
|                  |   | Hepatocellular Adenoma | Multiple               |
|                  |   | Pigment                | Moderate               |
|                  | [ Hepatocellular Adenoma TGLs = 2,3 - 19+20 ] |                        |                        |
| * Lung           |   | Infiltration Cellular  | Histiocyte, Mild       |
|                  |   | Inflammation           | Granulomatous, Minimal |
|                  | [ Infiltration Cellular TGLs = 5 - 6+7 ]      |                        |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 217

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300747

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Marked
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hypertrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Mild
	[ Degeneration TGLs = 1 - 16+17 ]		
* Thymus		Atrophy	Mild

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 218

TRT#: 9

SEX: Male

DAY ON TEST: 645

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Thymus

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- \* Bone Marrow Hypercellularity Marked
- \* Epididymis Hypospermia Marked  
[ Hypospermia TGLs = 5 - 14 ]
- \* Heart Cardiomyopathy Minimal
- \* Intestine Small, Jejunum Adenocarcinoma  
[ Adenocarcinoma TGLs = 1 - 18 ]
- \* Kidney Infarct Minimal  
Pelvis Inflammation Acute, Moderate  
Nephropathy Chronicprogr, Moderate
- \* Liver Basophilic Focus  
Hepatocyte Cytoplasmic Alteration Mild  
Bile Duct Dilation Moderate  
Bile Duct Eosinophilic Focus  
Hepatocyte Hepatocellular Adenoma  
Hepatocyte Hyperplasia Mild  
Hepatocyte Hyperplasia Moderate  
Hepatocyte Hypertrophy Moderate  
Pigment Pigment Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 218

TRT#: 9

SEX: Male

DAY ON TEST: 645

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300748

ORGAN AND ACCOUNTABLE SITE STATUS

Regeneration Mild

[ Hepatocellular Adenoma TGLs = 6 - 20 ]

[ Regeneration TGLs = 2 - 19 ]

\* Lung

Infiltration Cellular Histiocyte, Mild

[ Infiltration Cellular TGLs = 3 - 6 ]

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet Minimal

\* Pancreas

Acinus

Atrophy Mild

\* Prostate

Ventral

Inflammation Chronic Active, Moderate

\* Seminal Vesicle

Bilateral

Inflammation Chronic Active, Moderate

\* Spleen

Extramedullary Hematopoiesis Moderate

\* Stomach, Forestomach

Epithelium

Hyperplasia Moderate

Inflammation Chronic Active, Mild

Ulcer Minimal

\* Testis

Bilateral, Germinal Epith

Degeneration Marked

[ Degeneration TGLs = 4 - 16+17 ]

\* Thyroid Gland

C Cell

Adenoma

\* Urinary Bladder

Inflammation Chronic, Minimal

PRIMARY CAUSE OF DEATH - Intestine Small, Jejunum Adenocarcinoma

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 219

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Brain                  | * Esophagus                | * Eye                     | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                | * Parathyroid Gland         |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |   |  |  |
|-------------------|---|--|--|
| * Bone Marrow     |   | Hypercellularity   | Moderate                                   |
| * Epididymis      | Bilateral                               | Hypospermia  | Marked                                     |
| * Harderian Gland |   | Inflammation   | Chronic Active, Moderate                   |
| * Kidney          | Renal Tubule<br>Papilla                 | Cyst<br>Edema<br>Nephropathy   | Mild<br>Chronicprogr, Mild                 |
| * Liver           | Hepatocyte                              | Basophilic Focus<br>Cytoplasmic Alteration<br>Hypertrophy<br>Necrosis<br>Pigment | Marked<br>Moderate<br>Minimal<br>Mild      |
| * Lung            | [ Infiltration Cellular TGLs = 2 -6+7 ] | Infiltration Cellular<br>Inflammation  | Histiocyte, Mild<br>Granulomatous, Minimal |
| * Nose            | Olfactory Epi                           | Accumulation, Hyaline Droplet  | Moderate                                   |
| * Pituitary Gland | Pars Distalis<br>Pars Distalis          | Hyperplasia<br>Hypertrophy   | Minimal<br>Moderate                        |
| * Spleen          |   | Extramedullary Hematopoiesis<br>Pigment  | Mild<br>Minimal                            |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 219

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300749

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Mild
	Interstit Cell	Hyperplasia	Focal, Minimal
[ Degeneration	TGLs = 1 - 16+17 ]		
* Thymus		Atrophy	Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 220

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | Blood Vessel                | * Bone                   | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Parathyroid Gland       | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                  |                            |                          |                        |
|------------------|----------------------------|--------------------------|------------------------|
| * Adrenal Cortex |                            | Hypertrophy              | Focal, Mild            |
| * Bone Marrow    |                            | Hypercellularity         | Moderate               |
| * Brain          |                            | Gliosis                  | Mild                   |
|                  |                            | Necrosis                 | Mild                   |
| * Epididymis     | Bilateral                  | Hypospermia              | Marked                 |
|                  | Duct                       | Mineral                  | Minimal                |
| * Heart          |                            | Cardiomyopathy           | Mild                   |
|                  | Atrium                     | Thrombus                 | Mild                   |
|                  | [ Thrombus TGLs = 2 - 10 ] |                          |                        |
| * Kidney         | Papilla                    | Edema                    | Minimal                |
|                  | Papilla                    | Hemorrhage               | Mild                   |
|                  |                            | Infarct                  | Minimal                |
|                  |                            | Nephropathy              | Chronicprogr, Moderate |
| * Liver          |                            | Basophilic Focus         |                        |
|                  |                            | Clear Cell Focus         |                        |
|                  | Hepatocyte                 | Cytoplasmic Alteration   | Mild                   |
|                  |                            | Hepatocellular Carcinoma |                        |
|                  | Bile Duct                  | Hyperplasia              | Minimal                |
|                  | Hepatocyte                 | Hypertrophy              | Minimal                |
|                  |                            | Pigment                  | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 220

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300750

ORGAN AND ACCOUNTABLE SITE STATUS

	[ Hepatocellular Carcinoma TGLs = 3 - 12 ]		
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular Inflammation	Minimal Histiocyte, Minimal Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Pancreas	Acinus	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis Pars Distalis	Hyperplasia Hypertrophy	Minimal Moderate
* Spleen		Extramedullary Hematopoiesis	Mild
* Testis	Bilateral, Germinal Epith Seminif Tub Bilateral, Interstit Cell Bilateral	Degeneration Dysgenesis Hyperplasia Polyarteritis Nodosa	Marked Mild Focal, Mild Minimal
	[ Degeneration TGLs = 1 - 16+17 ]		
* Thymus		Atrophy	Minimal

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 221

TRT#: 9

SEX: Male

DAY ON TEST: 228

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Pancreas               | * Pituitary Gland          | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |               |                           |                        |                       |
|---------------|---------------------------|------------------------|-----------------------|
| * Bone Marrow |                           | Hypercellularity       | Mild                  |
| * Epididymis  | Bilateral                 | Hypospermia            | Marked                |
| * Kidney      |                           | Nephropathy            | Chronicprogr, Minimal |
| * Liver       | Hepatocyte                | Cytoplasmic Alteration | Mild                  |
|               | Hepatocyte                | Hypertrophy            | Moderate              |
|               |                           | Necrosis               | Mild                  |
| * Spleen      | White Pulp                | Atrophy                | Mild                  |
|               |                           | Pigment                | Minimal               |
| * Testis      | Bilateral, Germinal Epith | Degeneration           | Marked                |
|               | Interstit Cell            | Hyperplasia            | Focal, Marked         |

[ Degeneration TGLs = 1 - 16+17 ]

PRIMARY CAUSE OF DEATH

- Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 222

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Preputial Gland
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Thyroid Gland
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Seminal Vesicle
- \* Trachea

MISSING

- \* Intestine Large, Cecum
- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Adrenal Cortex
- \* Epididymis
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- Bilateral
- Papilla
- Epithelium, Papilla
- Hepatocyte
- [ Infiltration Cellular TGLs = 7 - 6+7 ]
- Olfactory Epi
- Acinus
- Pars Distalis
- Hypertrophy
- Hypospermia
- Cardiomyopathy
- Edema
- Hyperplasia
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Eosinophilic Focus
- Necrosis
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Focal, Minimal
- Marked
- Mild
- Mild
- Minimal
- Chronicprogr, Mild
- Moderate
- Minimal
- Moderate
- Histiocyte, Minimal
- Mild
- Multiple
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 222

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300752

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Pars Distalis	Hypertrophy	Mild
* Skin	Epithelium, Ventral	Hyperplasia	Minimal
	[ Schwannoma Malignant TGLs = 1 - 19 ]	Schwannoma Malignant	
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Interstit Cell	Hyperplasia	Focal, Minimal
	[ Degeneration TGLs = 6 - 16+17 ]		
* Thymus		Atrophy	Mild

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 223

TRT#: 9

SEX: Male

DAY ON TEST: 478

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | Blood Vessel              | * Bone                      | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Parathyroid Gland       | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                             |                               |                       |
|-------------------|-----------------------------|-------------------------------|-----------------------|
| * Adrenal Cortex  |                             | Hypertrophy                   | Focal, Minimal        |
| * Bone Marrow     |                             | Hypercellularity              | Moderate              |
| * Epididymis      | Bilateral, Duct             | Exfoliated Germ Cell          | Mild                  |
|                   | Bilateral                   | Hypospermia                   | Marked                |
| * Heart           | Valve                       | Fibrosis                      | Mild                  |
| * Kidney          | Renal Tubule                | Carcinoma                     |                       |
|                   | Papilla                     | Edema                         | Mild                  |
|                   |                             | Nephropathy                   | Chronicprogr, Minimal |
|                   | [ Carcinoma TGLs = 1 - 18 ] |                               |                       |
| * Liver           | Hepatocyte                  | Cytoplasmic Alteration        | Minimal               |
|                   |                             | Necrosis                      | Minimal               |
|                   |                             | Pigment                       | Mild                  |
| * Lung            |                             | Infiltration Cellular         | Histiocyte, Mild      |
| * Nose            | Olfactory Epi               | Accumulation, Hyaline Droplet | Minimal               |
| * Pancreas        | Acinus                      | Adenoma                       |                       |
| * Pituitary Gland | Pars Distalis               | Hypertrophy                   | Mild                  |
| * Spleen          |                             | Extramedullary Hematopoiesis  | Mild                  |
|                   |                             | Pigment                       | Minimal               |
| * Testis          | Germinal Epith              | Degeneration                  | Marked                |
|                   | Interstit Cell              | Hyperplasia                   | Focal, Marked         |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 223

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 478

**DOSE:** 10000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300753

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Degeneration TGLs = 2 - 16+17 ]

\* Thymus

Atrophy

Mild

---

PRIMARY CAUSE OF DEATH

- Kidney Renal Tubule Carcinoma

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 224

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Preputial Gland
- \* Salivary Glands
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thymus
- \* Urinary Bladder
- \* Blood Vessel
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Skin
- \* Thyroid Gland
- \* Trachea

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |              |  |                               |                        |
|--------------|--|-------------------------------|------------------------|
| * Epididymis | Bilateral, Duct                            | Exfoliated Germ Cell          | Marked                 |
|              | Bilateral                                  | Hypospermia                   | Marked                 |
| * Eye        | Retina                                     | Degeneration                  | Minimal                |
| * Heart      |  | Cardiomyopathy                | Mild                   |
| * Kidney     | Papilla                                    | Edema                         | Minimal                |
|              |  | Nephropathy                   | Chronicprogr, Moderate |
| * Liver      |  | Basophilic Focus              |                        |
|              |  | Clear Cell Focus              |                        |
|              | Hepatocyte                                 | Cytoplasmic Alteration        | Marked                 |
|              |  | Hepatocellular Carcinoma      |                        |
|              | Bile Duct                                  | Hyperplasia                   | Minimal                |
|              | Hepatocyte                                 | Hypertrophy                   | Mild                   |
|              |  | Pigment                       | Moderate               |
|              | [ Basophilic Focus TGLs = 3-20 ]           |                               |                        |
|              | [ Hepatocellular Carcinoma TGLs = 1 - 18 ] |                               |                        |
| * Lung       |  | Infiltration Cellular         | Histiocyte, Mild       |
|              |  | Inflammation                  | Granulomatous, Minimal |
| * Nose       | Olfactory Epi                              | Accumulation, Hyaline Droplet | Mild                   |
|              | Respirat Epith                             | Hyperplasia                   | Minimal                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 224

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300754

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Inflammation	Acute, Minimal
	Acinus	Adenoma	Multiple
		Hyperplasia	Marked
[ Adenoma TGLs = 2 - 19 ]			
* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
* Prostate	Ventral	Inflammation	Chronic Active, Mild
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Seminif Tub	Dysgenesis	Minimal
		Edema	Minimal
	Bilateral	Polyarteritis Nodosa	Marked
[ Degeneration TGLs = 4 - 16+17 ]			



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 225

TRT#: 9

SEX: Male

DAY ON TEST: 520

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300755

ORGAN AND ACCOUNTABLE SITE STATUS

* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Mild
	Interstit Cell	Hyperplasia	Focal, Mild
[ Degeneration TGLs = 1 - 16+17 ]			
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Heart Valve Thrombus

CONTRIBUTORY CAUSE OF DEATH - Heart Fibrous Histiocytoma



**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 226

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 413

**DOSE:** 10000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300756

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Lung Inflammation

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 227

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300757

ORGAN AND ACCOUNTABLE SITE STATUS

[ Inflammation TGLs = 2 - 19 ]

* Pituitary Gland	Pars Distalis	Hypertrophy	Moderate
* Prostate	Dorsal, Lateral	Inflammation	Chronic, Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Stomach, Glandular		Inflammation	Chronic, Minimal
* Testis	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Mild
	Bilateral	Polyarteritis Nodosa	Mild

[ Degeneration TGLs = 3 - 16+17 ]

* Thymus		Atrophy	Minimal
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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 228

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Bone Marrow		Hypercellularity	Minimal
* Epididymis	Bilateral	Hypospermia	Marked
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney	Papilla	Edema	Moderate
	Epithelium, Papilla	Hyperplasia	Mild
		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Mild
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Minimal
		Pigment	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Hypertrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 228

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300758

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Seminif Tub	Dysgenesis	Minimal
	Bilateral	Edema	Minimal
	Bilateral, Interstit Cell	Hyperplasia	Focal, Minimal
[ Degeneration	TGLs = 1 - 16+17 ]		
* Thymus		Atrophy	Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 229

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel             | * Bone                      |
| * Brain                  | * Esophagus                | * Eye                    | * Harderian Gland           |
| * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas               | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle        | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                | * Urinary Bladder           |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

- Testes

OBSERVATIONS

- |                           |                           |                               |                       |
|---------------------------|---------------------------|-------------------------------|-----------------------|
| * Bone Marrow             |                           | Hypercellularity              | Minimal               |
| * Epididymis              | Bilateral                 | Hypospermia                   | Marked                |
| * Intestine Large, Rectum |                           | Parasite Metazoan             |                       |
| * Kidney                  | Papilla                   | Edema                         | Moderate              |
|                           | Epithelium, Papilla       | Hyperplasia                   | Minimal               |
|                           |                           | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                   |                           | Basophilic Focus              |                       |
|                           |                           | Clear Cell Focus              |                       |
|                           | Hepatocyte                | Cytoplasmic Alteration        | Moderate              |
|                           |                           | Eosinophilic Focus            |                       |
|                           |                           | Pigment                       | Moderate              |
| * Lung                    |                           | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose                    | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal               |
| * Pituitary Gland         | Pars Distalis             | Hypertrophy                   | Mild                  |
| * Spleen                  |                           | Extramedullary Hematopoiesis  | Mild                  |
|                           |                           | Pigment                       | Minimal               |
| * Testis                  | Bilateral, Germinal Epith | Degeneration                  | Marked                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 229

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300759

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

	Bilateral	Edema	Mild
	Interstit Cell	Hyperplasia	Focal, Mild
[ Degeneration	TGLs = 1 - 16+17 ]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 231

TRT#: 9

SEX: Male

DAY ON TEST: 3

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Liver                  | * Lung                     |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Pituitary Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

MISSING

- |                     |                   |
|---------------------|-------------------|
| * Parathyroid Gland | * Preputial Gland |
|---------------------|-------------------|

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                          |             |                 |                      |
|--------------------------|-------------|-----------------|----------------------|
| * Bone Marrow            |             | Hypocellularity | Mild                 |
| * Lymph Node, Mandibular |             | Atrophy         | Marked               |
| * Lymph Node, Mesenteric |             | Atrophy         | Marked               |
| * Spleen                 | White Pulp  | Atrophy         | Moderate             |
| * Testis                 | Seminif Tub | Dysgenesis      | Minimal              |
| * Thymus                 |             | Atrophy         | Lymphocyte, Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 232

TRT#: 9

SEX: Male

DAY ON TEST: 99

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Brain                  |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Nose                    | * Pancreas                  | * Pituitary Gland        |
| * Preputial Gland          | * Salivary Glands         | * Skin                      | * Stomach, Forestomach   |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |                            |                  |                 |
|-------------------|----------------------------|------------------|-----------------|
| Blood Vessel      |                            | Mineral          | Marked          |
| * Bone Marrow     |                            | Hypercellularity | Moderate        |
| * Epididymis      | Bilateral                  | Hypospermia      | Marked          |
| * Heart           |                            | Cardiomyopathy   | Mild            |
|                   |                            | Mineral          | Moderate        |
| * Kidney          | Pelvis                     | Dilation         | Mild            |
|                   | Papilla                    | Edema            | Minimal         |
|                   | Cortex                     | Hemorrhage       | Mild            |
|                   |                            | Inflammation     | Acute, Moderate |
|                   |                            | Mineral          | Mild            |
|                   | [ Dilation TGLs = 1 - 18 ] |                  |                 |
| * Liver           | Bile Duct                  | Hyperplasia      | Minimal         |
| * Lung            | Artery                     | Mineral          | Minimal         |
| Mesentery         | Artery                     | Mineral          | Mild            |
| * Prostate        | Dorsal, Lateral            | Inflammation     | Acute, Minimal  |
| * Seminal Vesicle | Bilateral                  | Inflammation     | Acute, Minimal  |
| * Spleen          |                            | Pigment          | Minimal         |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 232

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 99

**DOSE:** 10000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300762

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Glandular

\* Testis

[ Degeneration TGLs = 2 - 16+17 ]

\* Thymus

Bilateral, Germinal Epith  
Seminif Tub

Mineral

Degeneration

Dysgenesis

Atrophy

Mild

Moderate

Mild

Marked

---

PRIMARY CAUSE OF DEATH

- Kidney Inflammation

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 233

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow      Hypercellularity      Moderate
- \* Epididymis      Bilateral      Hypospermia      Marked
- \* Intestine Large, Rectum      Parasite Metazoan
- \* Kidney      Papilla      Edema      Mild
- Papilla      Hemorrhage      Mild
- Nephropathy      Chronicprogr, Minimal
- \* Liver      Clear Cell Focus
- Hepatocyte      Cytoplasmic Alteration      Moderate
- Hepatocellular Carcinoma
- Bile Duct      Hyperplasia      Minimal
- Hepatocyte      Hypertrophy      Mild
- Pigment      Moderate
- [ Hepatocellular Carcinoma      TGLs = 4 - 21 ]
- \* Lung      Infiltration Cellular      Histiocyte, Mild
- Lymph Node      Mediastinal      Hyperplasia      Lymphocyte, Mild
- [ Hyperplasia      TGLs = 3 - 20 ]
- \* Nose      Olfactory Epi      Accumulation, Hyaline Droplet      Mild
- Inflammation      Acute, Minimal
- \* Pancreas      Acinus      Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 233

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300763

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLs = 1 - 19 ]

\* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Hypertrophy

Mild

\* Spleen

Extramedullary Hematopoiesis

Mild

\* Testis

Bilateral, Germinal Epith

Degeneration

Marked

Bilateral

Edema

Mild

Interstit Cell

Hyperplasia

Focal, Mild

[ Degeneration TGLs = 2 - 16+17 ]

\* Thymus

Atrophy

Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 234

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Brain                  | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

MISSING

- \* Parathyroid Gland

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |  |                     |                        |                       |
|--|---------------------|------------------------|-----------------------|
| * Bone Marrow  |                     | Hypercellularity       | Mild                  |
| * Epididymis   | Bilateral           | Hypospermia            | Marked                |
| * Heart  |                     | Cardiomyopathy         | Minimal               |
|  | Valve               | Fibrosis               | Moderate              |
| Note: Ectopic parathyroid gland present in right atrial wall (diagnosis not available in TDMSE). |                     |                        |                       |
| * Kidney   | Renal Tubule        | Cyst                   |                       |
|  | Papilla             | Edema                  | Moderate              |
|  | Papilla             | Hemorrhage             | Mild                  |
|  | Epithelium, Papilla | Hyperplasia            | Minimal               |
|  |                     | Infarct                | Minimal               |
|  |                     | Nephropathy            | Chronicprogr, Minimal |
| * Liver  |                     | Clear Cell Focus       |                       |
|  | Hepatocyte          | Cytoplasmic Alteration | Moderate              |
|  |                     | Degeneration           | Cystic, Minimal       |
|  |                     | Eosinophilic Focus     |                       |
|  | Bile Duct           | Hyperplasia            | Minimal               |
|  | Hepatocyte          | Hypertrophy            | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 234

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300764

ORGAN AND ACCOUNTABLE SITE STATUS

		Pigment	Moderate
	[ Clear Cell Focus TGLs = 3 - 20 ]		
	[ Eosinophilic Focus TGLs = 3-12 ]		
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
		Inflammation	Acute, Minimal
* Pancreas	Acinus	Adenoma	Multiple
	[ Adenoma TGLs = 2 - 19 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Hypertrophy	Moderate
* Spleen		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Mild
	Interstit Cell	Hyperplasia	Focal, Mild
	[ Degeneration TGLs = 1 - 16+17 ]		
* Thymus		Atrophy	Mild

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 235

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Brain                  | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Parathyroid Gland        | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                      |               |                               |                       |
|----------------------|---------------|-------------------------------|-----------------------|
| * Bone Marrow        |               | Hypercellularity              | Mild                  |
| * Epididymis         | Bilateral     | Hypospermia                   | Marked                |
| * Heart              |               | Cardiomyopathy                | Minimal               |
| * Islets, Pancreatic |               | Adenoma                       |                       |
| * Kidney             | Papilla       | Edema                         | Mild                  |
|                      |               | Infarct                       | Minimal               |
|                      |               | Nephropathy                   | Chronicprogr, Minimal |
| * Liver              |               | Clear Cell Focus              |                       |
|                      | Hepatocyte    | Cytoplasmic Alteration        | Mild                  |
|                      |               | Hepatocellular Adenoma        |                       |
|                      |               | Necrosis                      | Minimal               |
|                      |               | Pigment                       | Moderate              |
| * Lung               |               | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose               | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate              |
| * Pancreas           | Acinus        | Adenoma                       | Multiple              |
|                      | Acinus        | Hyperplasia                   | Marked                |
|                      |               | [ Adenoma TGLs = 4 - 20 ]     |                       |
|                      |               | [ Hyperplasia TGLs = 5 - 21 ] |                       |
| * Pituitary Gland    | Pars Distalis | Hyperplasia                   | Minimal               |
|                      | Pars Distalis | Hypertrophy                   | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 235

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300765

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Skin		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 3 - 19 ]		
* Spleen		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Mild
	Interstit Cell	Hyperplasia	Focal, Mild
	[ Degeneration TGLs = 1 - 16+17 ]		
* Thymus		Atrophy	Moderate

Experiment Number: 10188 - 02  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Di(2-ethylhexyl) Phthalate  
CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
Time Report Requested: 13:48:37  
First Dose M/F: 06/27/11 / 06/28/11  
Lab: BAT

ANIMAL ID: 236

TRT#: 9

SEX: Male

DAY ON TEST: 295

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

\* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Epididymis	Bilateral	Hypospermia	Marked
	[ Hypospermia TGLs = 4 - 14 ]		
* Heart		Cardiomyopathy	Mild
	Valve	Fibrosis	Minimal
	Valve	Thrombus	Mild
* Liver		Hepatocellular Adenoma	
* Lung		Infiltration Cellular	Histiocyte, Moderate
* Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Moderate
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Interstit Cell	Hyperplasia	Focal, Marked
	Bilateral, Seminif Tub	Mineral	Moderate
	[ Degeneration TGLs = 3 - 16+17 ]		

PRIMARY CAUSE OF DEATH

- Heart Valve Thrombus

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 237

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Bone Marrow		Hypercellularity	Minimal
* Epididymis	Bilateral	Hypospermia	Marked
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Cyst	
	Papilla	Edema	Moderate
	Epithelium, Papilla	Hyperplasia	Minimal
		Nephropathy	Chronicprogr, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Moderate
	Hepatocyte	Hypertrophy	Mild
		Pigment	Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hypertrophy	Moderate
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Minimal
	Interstit Cell	Hyperplasia	Focal, Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 237

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300767

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Degeneration TGLs = 1 - 16+17 ]

\* Thymus

Atrophy

Minimal

\* Thyroid Gland

C Cell

Adenoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 238

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Kidney
  - \* Liver
  - \* Nose
  - \* Pancreas
  - \* Pituitary Gland
  - \* Spleen
  - \* Stomach, Forestomach
- [ Adenoma TGLs = 3 - 18 ]
- [ Hyperplasia TGLs = 4 - 19 ]
- [ Hyperplasia TGLs = 7 - 22 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 238

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300768

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Glandular

Cyst

Squamous

[ Cyst TGLs = 6 - 21 ]

Gist

[ Gist TGLs = 5 - 20 ]

\* Testis

Bilateral, Germinal Epith

Degeneration

Marked

Bilateral

Edema

Mild

Interstit Cell

Hyperplasia

Focal, Mild

[ Degeneration TGLs = 1 - 16+17 ]

\* Thymus

Atrophy

Marked

---

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 239

TRT#: 9

SEX: Male

DAY ON TEST: 717

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Thymus

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Moderate
* Bone Marrow		Hypercellularity	Moderate
* Epididymis	Bilateral	Hypospermia	Marked
	Bilateral	Inflammation	Suppurative, Marked
* Kidney		Inflammation	Chronic Active, Moderate
		Nephropathy	Chronicprogr, Marked
	[ Inflammation TGLs = 5 - 8 ]		
* Liver		Basophilic Focus	
	Hepatocyte	Cytoplasmic Alteration	Moderate
		Eosinophilic Focus	
		Pigment	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 1 - 11 ]		
* Prostate	Dorsal, Lateral	Inflammation	Suppurative, Marked
	[ Inflammation TGLs = 4 - 15 ]		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 239

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 717

**DOSE:** 10000 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300769

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Seminal Vesicle	Bilateral	Inflammation	Suppurative, Minimal
* Spleen	White Pulp	Atrophy	Marked
		Pigment	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Testis	Bilateral, Germinal Epith	Degeneration	Marked

[ Degeneration TGLs = 2,3 - 17 ]

---

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 240

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Parathyroid Gland        | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Skin                     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                      |  |                               |                       |
|----------------------|--|-------------------------------|-----------------------|
| * Epididymis         | Bilateral                                | Hypospermia                   | Marked                |
| * Heart              |  | Cardiomyopathy                | Minimal               |
|                      | Valve                                    | Fibrosis                      | Minimal               |
| * Islets, Pancreatic |  | Adenoma                       |                       |
| * Kidney             | Papilla                                  | Edema                         | Moderate              |
|                      | Papilla                                  | Hemorrhage                    | Minimal               |
|                      | Epithelium, Papilla                      | Hyperplasia                   | Minimal               |
|                      |  | Infarct                       | Minimal               |
| * Liver              |  | Nephropathy                   | Chronicprogr, Minimal |
|                      |  | Basophilic Focus              |                       |
|                      |  | Clear Cell Focus              |                       |
|                      | Hepatocyte                               | Cytoplasmic Alteration        | Mild                  |
|                      |  | Pigment                       | Moderate              |
| * Lung               |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                      | [ Infiltration Cellular TGLs = 4 - 6+7 ] |                               |                       |
| * Nose               | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal               |
| * Pancreas           | Acinus                                   | Adenoma                       | Multiple              |
|                      | Acinus                                   | Hyperplasia                   | Marked                |
|                      | [ Adenoma TGLs = 1,3 - 19+20 ]           |                               |                       |
| * Pituitary Gland    |  | Hemorrhage                    | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 240

TRT#: 9

SEX: Male

DAY ON TEST: 732

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300770

ORGAN AND ACCOUNTABLE SITE STATUS

		Pars Distalis	Hypertrophy	Moderate
[ Hemorrhage	TGLs = 5 - 11 ]			
* Seminal Vesicle		Bilateral	Inflammation	Acute, Minimal
[ Inflammation	TGLs = 6 - 15 ]			
* Spleen			Extramedullary Hematopoiesis	Mild
			Pigment	Minimal
* Stomach, Forestomach		Epithelium	Hyperplasia	Minimal
* Testis		Bilateral, Germinal Epith	Degeneration	Marked
		Bilateral	Edema	Mild
[ Degeneration	TGLs = 2 - 16+17 ]			
* Thymus			Atrophy	Mild

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 241

TRT#: 9

SEX: Male

DAY ON TEST: 727

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Bone Marrow               | * Brain                  | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Parathyroid Gland       |
| * Preputial Gland           | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Epididymis      | Bilateral                                | Hypospermia                   | Marked                 |
| * Heart           | Valve                                    | Fibrosis                      | Mild                   |
|                   | Valve                                    | Thrombus                      | Minimal                |
| * Kidney          | Renal Tubule                             | Cyst                          |                        |
|                   | Papilla                                  | Edema                         | Mild                   |
|                   | Epithelium, Papilla                      | Hyperplasia                   | Mild                   |
|                   |  | Infarct                       | Minimal                |
|                   |  | Nephropathy                   | Chronicprogr, Mild     |
| * Liver           |  | Basophilic Focus              |                        |
|                   |  | Clear Cell Focus              |                        |
|                   | Hepatocyte                               | Cytoplasmic Alteration        | Moderate               |
|                   |  | Pigment                       | Moderate               |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild       |
|                   |  | Inflammation                  | Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                        |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas        | Acinus                                   | Adenoma                       |                        |
|                   | Acinus                                   | Hyperplasia                   | Moderate               |
| * Pituitary Gland | Pars Distalis                            | Adenoma                       |                        |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 241

TRT#: 9

SEX: Male

DAY ON TEST: 727

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300771

ORGAN AND ACCOUNTABLE SITE STATUS

[ Adenoma TGLs = 1 - 11 ]

* Prostate	Epithelium, Ventral	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith Interstit Cell	Degeneration	Marked
		Hyperplasia	Focal, Mild
	[ Degeneration TGLs = 3,4 - 16+17 ]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 242

TRT#: 9

SEX: Male

DAY ON TEST: 731

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Preputial Gland
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- \* Bone Marrow: Hypercellularity (Minimal)
- \* Epididymis: Bilateral Hypospermia (Marked)
- \* Kidney: Papilla Edema (Mild)
- \* Liver: Nephropathy (Chronicprogr, Mild)
- \* Liver: Clear Cell Focus (Minimal)
- \* Liver: Hepatocyte Cytoplasmic Alteration (Minimal)
- \* Liver: Bile Duct Hyperplasia (Mild)
- \* Lung: Pigment Infiltration Cellular (Histiocyte, Minimal)
- \* Nose: Inflammation (Acute, Minimal)
- \* Pancreas: Olfactory Epi Metaplasia (Respiratory, Minimal)
- \* Pancreas: Acinus Adenoma (Multiple)
- \* Pituitary Gland: [ Adenoma TGLs = 2,3,4,5,6 - 18+19+20+21+22 ] Pars Distalis (Marked)
- \* Pituitary Gland: Pars Distalis (Mild)
- \* Prostate: Ventral Inflammation (Acute, Minimal)
- \* Spleen: Extramedullary Hematopoiesis (Mild)
- \* Spleen: Pigment (Minimal)
- \* Testis: Interstit Cell Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 242

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300772

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Bilateral, Germinal Epith

Degeneration

Marked

Bilateral, Interstit Cell

Hyperplasia

Focal, Marked

[ Degeneration TGLs = 1 - 16+17 ]

Atrophy

Mild

---

\* Thymus

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 243

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Brain                  | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    | * Parathyroid Gland         |
| * Preputial Gland        | * Salivary Glands          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |  |                              |                        |
|-------------------|--|------------------------------|------------------------|
| * Bone Marrow     |  | Congestion                   | Marked                 |
|                   |  | Hypercellularity             | Mild                   |
| * Epididymis      | Bilateral                              | Hypospermia                  | Marked                 |
| * Heart           |  | Cardiomyopathy               | Minimal                |
| * Kidney          | Papilla                                | Edema                        | Moderate               |
|                   |  | Nephropathy                  | Chronicprogr, Mild     |
| * Liver           |  | Clear Cell Focus             |                        |
|                   | Hepatocyte                             | Cytoplasmic Alteration       | Moderate               |
|                   | Bile Duct                              | Hyperplasia                  | Minimal                |
|                   |  | Pigment                      | Mild                   |
| * Lung            |  | Infiltration Cellular        | Histiocyte, Mild       |
|                   |  | Inflammation                 | Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 3 - 6 ] |                              |                        |
| * Pancreas        | Acinus                                 | Hyperplasia                  | Mild                   |
|                   |  | Polyarteritis Nodosa         | Moderate               |
| * Pituitary Gland | Pars Distalis                          | Hypertrophy                  | Mild                   |
| * Prostate        | Epithelium, Ventral                    | Hyperplasia                  | Minimal                |
| * Seminal Vesicle | Bilateral                              | Inflammation                 | Chronic Active, Mild   |
| * Spleen          |  | Extramedullary Hematopoiesis | Mild                   |
|                   |  | Pigment                      | Minimal                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 243

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300773

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Testis

Interstit Cell

Adenoma

Bilateral, Germinal Epith

Degeneration

Marked

Bilateral

Polyarteritis Nodosa

Moderate

[ Adenoma TGLs = 2 - 17 ]

[ Degeneration TGLs = 1 - 16 ]

\* Thymus

Atrophy

Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 244

TRT#: 9

SEX: Male

DAY ON TEST: 3

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Liver                  | * Lung                     |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                          |             |                 |                  |
|--------------------------|-------------|-----------------|------------------|
| * Bone Marrow            |             | Hypocellularity | Mild             |
| * Lymph Node, Mandibular |             | Atrophy         | Marked           |
| * Lymph Node, Mesenteric |             | Atrophy         | Moderate         |
| * Spleen                 | White Pulp  | Atrophy         | Mild             |
| * Testis                 | Seminif Tub | Dysgenesis      | Minimal          |
| * Thymus                 |             | Atrophy         | Lymphocyte, Mild |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 245

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | Blood Vessel                | * Bone                   | * Brain                    |
| * Esophagus               | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Trachea                   | * Urinary Bladder        |                            |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                   |   |                               |                    |
|-------------------|---|-------------------------------|--------------------|
| * Adrenal Cortex  |   | Degeneration                  | Cystic, Minimal    |
| * Bone Marrow     |   | Hypercellularity              | Minimal            |
| * Epididymis      | Bilateral                                 | Hypospermia                   | Marked             |
| * Eye             | Cornea                                    | Inflammation                  | Acute, Minimal     |
| * Heart           |   | Polyarteritis Nodosa          | Minimal            |
| * Kidney          | Papilla                                   | Edema                         | Moderate           |
|                   | Papilla                                   | Hemorrhage                    | Moderate           |
|                   |   | Infarct                       | Minimal            |
|                   |   | Nephropathy                   | Chronicprogr, Mild |
| * Liver           |   | Clear Cell Focus              |                    |
|                   | Hepatocyte                                | Cytoplasmic Alteration        | Moderate           |
|                   |   | Eosinophilic Focus            |                    |
|                   |   | Necrosis                      | Minimal            |
|                   |   | Pigment                       | Mild               |
|                   | [ Eosinophilic Focus TGLs = 5,6 - 20+21 ] |                               |                    |
| * Nose            | Olfactory Epi                             | Accumulation, Hyaline Droplet | Minimal            |
| * Pancreas        | Acinus                                    | Adenoma                       | Multiple           |
|                   | Acinus                                    | Hyperplasia                   | Marked             |
|                   | [ Adenoma TGLs = 3,4 - 18+19 ]            |                               |                    |
| * Pituitary Gland | Pars Distalis                             | Hyperplasia                   | Minimal            |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 245

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300775

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Pars Distalis	Hypertrophy	Mild
		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Marked
Note: Left testis essentially absent - no remnant found microscopically; other testis is markedly degenerate. [ Degeneration TGLs = 1,2 - 16+17 ]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal





Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 246

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300776

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 3 - 11 ]			
* Preputial Gland		Carcinoma	
* Spleen	White Pulp	Atrophy	Moderate
		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Interstit Cell	Hyperplasia	Focal, Mild
[ Degeneration TGLs = 1 - 16+17 ]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Heart Valve Thrombus

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 247

TRT#: 9

SEX: Male

DAY ON TEST: 3

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Epididymis                | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Liver                  |
| * Lung                     | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                          |                           |                              |                    |
|--------------------------|---------------------------|------------------------------|--------------------|
| * Lymph Node, Mandibular |                           | Atrophy                      | Mild               |
| * Lymph Node, Mesenteric |                           | Atrophy                      | Mild               |
| * Spleen                 |                           | Extramedullary Hematopoiesis | Minimal            |
| * Testis                 | Bilateral, Interstit Cell | Hyperplasia                  | Focal, Moderate    |
| * Thymus                 |                           | Atrophy                      | Lymphocyte, Marked |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 248

TRT#: 9

SEX: Male

DAY ON TEST: 5

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                   | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Testis                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- \* Lymph Node, Mesenteric

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |  |            |                 |                      |
|--|------------|-----------------|----------------------|
| * Bone Marrow  |            | Hypocellularity | Moderate             |
| * Kidney   | Pelvis     | Dilation        | Minimal              |
| * Lymph Node, Mandibular   |            | Atrophy         | Moderate             |
| Note: All lymphoid tissue is underpopulated, interpreted as largely due to immaturity. |            |                 |                      |
| * Spleen   | White Pulp | Atrophy         | Marked               |
| * Thymus   |            | Atrophy         | Lymphocyte, Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 249

TRT#: 9

SEX: Male

DAY ON TEST: 3

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                   |         |                     |                   |
|-------------------|---------|---------------------|-------------------|
| * Bone            | * Brain | * Esophagus         | * Eye             |
| * Harderian Gland | * Nose  | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin  | * Thyroid Gland     | * Trachea         |

MISSING

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Epididymis              |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Liver                  | * Lung                     | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Pancreas               | * Preputial Gland          | * Prostate                |
| * Seminal Vesicle           | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testis                    | * Thymus                 | * Urinary Bladder          |                           |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                          |                 |        |
|--------------------------|-----------------|--------|
| * Bone Marrow            | Hypocellularity | Marked |
| * Lymph Node, Mandibular | Atrophy         | Mild   |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 250

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | Blood Vessel             | * Bone                      | * Brain                  |
| * Esophagus                | * Eye                    | * Harderian Gland           | * Heart                  |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Parathyroid Gland      | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle        | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland          | * Trachea                   | * Urinary Bladder        |

PRESENT BUT NOT EXAMINED

Testes

OBSERVATIONS

- |                           |                     |                               |                     |
|---------------------------|---------------------|-------------------------------|---------------------|
| * Adrenal Medulla         |                     | Hyperplasia                   | Focal, Mild         |
| * Bone Marrow             |                     | Hypercellularity              | Minimal             |
| * Epididymis              | Bilateral           | Hypospermia                   | Marked              |
| * Intestine Large, Rectum |                     | Parasite Metazoan             |                     |
| * Kidney                  | Pelvis              | Dilation                      | Minimal             |
|                           | Papilla             | Edema                         | Moderate            |
|                           | Epithelium, Papilla | Hyperplasia                   | Minimal             |
|                           |                     | Nephropathy                   | Chronicprogr, Mild  |
| * Liver                   |                     | Basophilic Focus              |                     |
|                           |                     | Clear Cell Focus              |                     |
|                           | Hepatocyte          | Cytoplasmic Alteration        | Moderate            |
|                           |                     | Degeneration                  | Cystic, Minimal     |
|                           |                     | Eosinophilic Focus            |                     |
|                           | Bile Duct           | Hyperplasia                   | Minimal             |
|                           | Hepatocyte          | Hypertrophy                   | Minimal             |
|                           |                     | Pigment                       | Moderate            |
| * Lung                    |                     | Infiltration Cellular         | Histiocyte, Minimal |
| * Nose                    | Olfactory Epi       | Accumulation, Hyaline Droplet | Mild                |
| * Pancreas                | Acinus              | Adenoma                       | Multiple            |
|                           | Acinus              | Hyperplasia                   | Marked              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 250

TRT#: 9

SEX: Male

DAY ON TEST: 729

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300780

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Adenoma TGLs = 2,3,4,5 - 18+19 ]

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Mild
	Interstit Cell	Hyperplasia	Focal, Moderate
	[ Degeneration TGLs = 1 - 16+17 ]		
* Thymus		Atrophy	Minimal

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 251

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow
  - Congestion Mild
  - Hypercellularity Moderate
- \* Kidney
  - Nephropathy Chronicprogr, Minimal
- \* Liver
  - Eosinophilic Focus
- Bile Duct
  - Hyperplasia Minimal
  - Infiltration Cellular Histiocyte, Mild
- \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose
  - Olfactory Epi Accumulation, Hyaline Droplet Minimal
- \* Ovary
  - Bilateral Atrophy Moderate
- \* Pituitary Gland
  - Pars Distalis Hyperplasia Mild
- \* Spleen
  - Extramedullary Hematopoiesis Mild
  - Pigment Mild
- \* Thymus
  - Atrophy Mild
- \* Uterus
  - Dilation Moderate
  - Inflammation Chronic Active, Mild
- [ Dilation TGLs = 1 - 16+17 ]

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 253

TRT#: 2

SEX: Female

DAY ON TEST: 725

DOSE: 0 ppm Female

DISP: Natural Death

HISTO: 1300798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Salivary Glands
- \* Thyroid Gland
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Skin
- \* Trachea

MISSING

Vagina

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Lymph Node, Mesenteric
- \* Mammary Gland
  - [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Uterus
- Extramedullary Hematopoiesis
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Extramedullary Hematopoiesis
- Infiltration Cellular
- Atrophy
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Polyp Stromal
- Minimal
- Marked
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Mild
- Moderate
- Moderate
- Moderate
- Moderate
- Minimal
- Mild
- Cystic, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 255

TRT#: 2

SEX: Female

DAY ON TEST: 645

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Cecum
- \* Islets, Pancreatic
- \* Salivary Glands
- \* Thyroid Gland
- Blood Vessel
- \* Eye
- \* Intestine Large, Colon
- \* Liver
- \* Skin
- \* Trachea
- \* Bone
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Mammary Gland
- \* Stomach, Glandular
- Vagina

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Medulla
    - [ Ganglioneuroma TGLs = 6 - 22 ]
  - \* Bone Marrow
  - \* Brain
  - \* Intestine Small, Ileum
  - \* Intestine Small, Jejunum
  - \* Kidney
  - \* Lung
    - Alveolar Epith
    - [ Infiltration Cellular TGLs = 8 - 6+7 ]
  - \* Lymph Node, Mesenteric
    - [ Adenocarcinoma TGLs = 10 - 9 ]
  - Mesentery
    - [ Adenocarcinoma TGLs = 7 - 23 ]
  - \* Nose
    - Olfactory Epi
  - \* Ovary
    - Bilateral
  - \* Pancreas
    - [ Adenocarcinoma TGLs = 2,3,4 - 18+19+20 ]
  - \* Pituitary Gland
    - Pars Distalis
    - [ Adenoma TGLs = 9 - 24 ]
- Ganglioneuroma
- Hypercellularity
- Granular Cell Tumor Benign
- Adenocarcinoma
- Adenocarcinoma
- Nephropathy
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Adenocarcinoma
- Adenocarcinoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenocarcinoma
- Adenoma
- Marked
- Metastatic (Uterus)
- Metastatic (Uterus)
- Chronicprogr, Mild
- Mild
- Histiocyte, Mild
- Chronic Active, Minimal
- Metastatic (Uterus)
- Metastatic (Uterus)
- Mild
- Moderate
- Metastatic (Uterus)

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 255

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 645

**DOSE:** 0 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300800

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen	White Pulp	Atrophy	Moderate
		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Adenocarcinoma	
	[ Adenocarcinoma TGLs = 5 - 21 ]		

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PRIMARY CAUSE OF DEATH - Uterus Endometrium Adenocarcinoma

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 256

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 4 - 19 ]		
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]	Inflammation	Chronic, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Marked
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
* Ovary	Bilateral	Atrophy	Moderate
	Follicle	Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 3 - 11 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Atrophy	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 258

TRT#: 2

SEX: Female

DAY ON TEST: 406

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Liver
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow
- \* Brain
- \* Heart
- \* Kidney
- Renal Tubule
- [ Nephropathy TGLs = 1 - 18 ]
- \* Lung
- \* Nose
- \* Ovary
- \* Spleen
- \* Thymus
- \* Uterus
- Endometrium
- Endometrium
- Hypercellularity
- Necrosis
- Cardiomyopathy
- Accumulation, Hyaline Droplet
- Nephropathy
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Atrophy
- Pigment
- Atrophy
- Hyperplasia
- Squamous Metaplasia
- Moderate
- Marked
- Minimal
- Minimal
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Moderate
- Mild
- Moderate
- Mild
- Minimal
- Cystic, Mild
- Mild

PRIMARY CAUSE OF DEATH

- Brain Necrosis

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 259

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300804

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                   |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus              |
| * Eye                       | * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas               |
| * Parathyroid Gland         | * Salivary Glands        | * Skin                     | * Stomach, Forestomach   |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | Vagina                   |

**OBSERVATIONS**

- |                           |  |                               |                              |
|---------------------------|--|-------------------------------|------------------------------|
| * Heart                   |  | Cardiomyopathy                | Minimal                      |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                              |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Mild           |
| * Liver                   |  | Angiectasis                   | Minimal                      |
|                           |  | Basophilic Focus              |                              |
|                           |  | Cholangioma                   |                              |
|                           |  | Clear Cell Focus              |                              |
|                           |  | Extramedullary Hematopoiesis  | Minimal                      |
|                           | [ Angiectasis TGLs = 1 - 19 ]            |                               |                              |
|                           | [ Cholangioma TGLs = 2 - 20 ]            |                               |                              |
| * Lung                    |  | Carcinoma                     | Metastatic (Pituitary Gland) |
|                           |  | Infiltration Cellular         | Histiocyte, Moderate         |
|                           |  | Inflammation                  | Granulomatous, Minimal       |
|                           | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                              |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate                     |
|                           | Respirat Epith                           | Accumulation, Hyaline Droplet | Minimal                      |
| * Ovary                   | Bilateral                                | Atrophy                       | Moderate                     |
| * Pituitary Gland         | Pars Distalis                            | Carcinoma                     |                              |
|                           | [ Carcinoma TGLs = 4 - 11 ]              |                               |                              |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                         |
|                           |  | Pigment                       | Mild                         |
| * Stomach, Glandular      |  | Mineral                       | Minimal                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 259

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300804

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 260

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Parathyroid Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Trachea
- \* Urinary Bladder
- \* Vagina

OBSERVATIONS

- \* Bone Marrow
  - Hypercellularity
  - Mild
- \* Kidney
  - Nephropathy
  - Chronicprogr, Minimal
- \* Liver
  - Clear Cell Focus
  - Hepatodiaphragmatic Nodule
- [ Hepatodiaphragmatic Nodule TGLs = 3 - 21 ]
- \* Lung
  - Infiltration Cellular
  - Histiocyte, Minimal
  - Inflammation
  - Granulomatous, Minimal
- [ Infiltration Cellular TGLs = 5 - 6+7 ]
- \* Mammary Gland
  - Fibroadenoma
  - Galactocele
  - Hyperplasia
  - Marked
  - Mild
- [ Fibroadenoma TGLs = 1 - 18 ]
  - [ Galactocele TGLs = 2 - 19 ]
  - [ Hyperplasia TGLs = 2-19 ]
- \* Nose
  - Olfactory Epi
  - Accumulation, Hyaline Droplet
  - Moderate
- \* Ovary
  - Bilateral
  - Atrophy
  - Moderate
- \* Pituitary Gland
  - Pars Distalis
  - Adenoma
- \* Spleen
  - Extramedullary Hematopoiesis
  - Pigment
  - Mild
  - Minimal
- \* Stomach, Glandular
  - Mineral
  - Minimal
- \* Thymus
  - Atrophy
  - Minimal
- \* Thyroid Gland
  - C Cell
  - Hyperplasia
  - Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 260

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300805

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Adenocarcinoma

Endometrium

Hyperplasia

Cystic, Minimal

Endometrium

Squamous Metaplasia

Minimal

[ Adenocarcinoma TGLs = 4 - 20 ]

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 261

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Skin
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Lung
  - [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Uterus
- Degeneration
- Hypercellularity
- Nephropathy
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Squamous Metaplasia
- Cystic, Minimal
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Moderate
- Moderate
- Moderate
- Mild
- Minimal
- Moderate
- Cystic, Moderate
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 262

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Skin
- \* Trachea
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Ileum
- \* Liver
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland

OBSERVATIONS

- \* Bone Marrow
- \* Intestine Large, Rectum
- \* Lung
  - [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Uterus
- Hypercellularity
- Parasite Metazoan
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Inflammation
- Squamous Metaplasia
- Minimal
- Histiocyte, Mild
- Moderate
- Moderate
- Mild
- Minimal
- Minimal
- Atypical, Marked
- Suppurative, Moderate
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANATOMY PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 263

TRT#: 2

SEX: Female

DAY ON TEST: 625

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | Blood Vessel             | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |  |                               |                      |
|-------------------|--|-------------------------------|----------------------|
| * Adrenal Cortex  |  | Degeneration                  | Cystic, Minimal      |
| * Bone Marrow     |  | Hypercellularity              | Moderate             |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Mild   |
| * Liver           |  | Extramedullary Hematopoiesis  | Minimal              |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate |
|                   | [ Infiltration Cellular TGLs = 4 - 6+7 ]     |                               |                      |
| * Nose            | Olfactory Epi                                | Accumulation, Hyaline Droplet | Moderate             |
| * Ovary           | Bilateral                                    | Atrophy                       | Mild                 |
| * Pituitary Gland | Pars Distalis                                | Hyperplasia                   | Mild                 |
|                   | [ Hyperplasia TGLs = 5 - 11 ]                |                               |                      |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                 |
|                   |  | Pigment                       | Mild                 |
| * Thymus          |  | Atrophy                       | Mild                 |
| * Uterus          | Endometrium                                  | Hyperplasia                   | Cystic, Mild         |
|                   |  | Inflammation                  | Suppurative, Mild    |
|                   |  | Schwannoma Malignant          | Metastatic (Vagina)  |
|                   | Endometrium                                  | Squamous Metaplasia           | Mild                 |
|                   | [ Schwannoma Malignant TGLs = 3 - 16+20+21 ] |                               |                      |
| Vagina            |  | Prolapse                      |                      |
|                   |  | Schwannoma Malignant          |                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

ANIMAL ID: 263

TRT#: 2

SEX: Female

DAY ON TEST: 625

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300808

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Prolapse TGLs = 2 - 19 ]

[ Schwannoma Malignant TGLs = 1 - 18 ]

---

PRIMARY CAUSE OF DEATH - Vagina Schwannoma Malignant

---





Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 265

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | Blood Vessel             | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas                |
| * Parathyroid Gland         | * Salivary Glands        | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | Vagina                    |

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex  |  | Degeneration                  | Cystic, Minimal       |
| * Bone Marrow     |  | Hypercellularity              | Mild                  |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild      |
|                   | [ Infiltration Cellular TGLs = 4 - 6+7 ] |                               |                       |
| * Mammary Gland   |  | Fibroadenoma                  | Multiple              |
|                   | [ Fibroadenoma TGLs = 1,3 - 19+21 ]      | Hyperplasia                   | Minimal               |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
|                   | Respirat Epith                           | Accumulation, Hyaline Droplet | Minimal               |
| * Ovary           | Bilateral                                | Atrophy                       | Moderate              |
|                   | Bursa                                    | Cyst                          |                       |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Moderate              |
|                   | [ Hyperplasia TGLs = 5 - 11 ]            |                               |                       |
| * Skin            |  | Schwannoma Malignant          |                       |
|                   | [ Schwannoma Malignant TGLs = 2 - 20 ]   |                               |                       |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                  |
|                   |  | Pigment                       | Mild                  |
| * Thymus          |  | Atrophy                       | Moderate              |
| * Uterus          | Endometrium                              | Squamous Metaplasia           | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 266

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel             | * Bone                     | * Brain                   | * Clitoral Gland            |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas                | * Salivary Glands           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          | Vagina                    |                             |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex  |  | Degeneration                  | Cystic, Minimal       |
| * Adrenal Medulla |  | Hyperplasia                   | Mild                  |
| * Bone Marrow     |  | Hypercellularity              | Mild                  |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild      |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Mammary Gland   |  | Fibroadenoma                  |                       |
|                   | [ Fibroadenoma TGLs = 1 - 20 ]           | Hyperplasia                   | Minimal               |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary           | Bilateral                                | Atrophy                       | Moderate              |
| * Pituitary Gland | Pars Distalis                            | Adenoma                       |                       |
|                   | [ Adenoma TGLs = 3 - 21 ]                |                               |                       |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                  |
|                   |  | Pigment                       | Minimal               |
| * Thymus          |  | Atrophy                       | Minimal               |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Mild          |
|                   | Endometrium                              | Squamous Metaplasia           | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 267

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Pancreas                | * Parathyroid Gland         | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | * Uterus                    | Vagina                   |

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild      |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                       |
| * Mammary Gland   |  | Hyperplasia                   | Mild                  |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary           | Bilateral                                | Atrophy                       | Minimal               |
| * Pituitary Gland | Pars Distalis                            | Adenoma                       |                       |
|                   | [ Adenoma TGLs = 2 - 11 ]                |                               |                       |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                  |
|                   |  | Pigment                       | Mild                  |
| * Thymus          |  | Atrophy                       | Minimal               |



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 269

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel             | * Bone                      |
| * Brain                  | * Clitoral Gland           | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                    |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas               | * Parathyroid Gland         |
| * Pituitary Gland        | * Salivary Glands          | * Skin                   | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Trachea                  | * Urinary Bladder        | Vagina                      |

OBSERVATIONS

- |                           |  |                               |                   |
|---------------------------|--|-------------------------------|-------------------|
| * Bone Marrow             |  | Hypercellularity              | Moderate          |
| * Heart                   |  | Cardiomyopathy                | Minimal           |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                   |
| * Liver                   |  | Clear Cell Focus              |                   |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild  |
|                           | [ Infiltration Cellular TGLs = 3 - 6+7 ]   |                               |                   |
| * Mammary Gland           |  | Fibroadenoma                  |                   |
|                           | Note: Some of the fibroadenoma is also present on slide 14 with clitoral glands. |                               |                   |
|                           | [ Fibroadenoma TGLs = 1 - 19 ]   |                               |                   |
| * Nose                    | Olfactory Epi  | Accumulation, Hyaline Droplet | Moderate          |
| * Ovary                   | Bilateral  | Atrophy                       | Mild              |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild              |
|                           |  | Pigment                       | Minimal           |
| * Thymus                  |  | Atrophy                       | Mild              |
| * Thyroid Gland           | C Cell   | Hyperplasia                   | Mild              |
| * Uterus                  |  | Hyperplasia                   | Stromal, Moderate |
|                           | Cervix   | Schwannoma Malignant          |                   |
|                           | [ Schwannoma Malignant TGLs = 2 - 18 ]   |                               |                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 270

TRT#: 2

SEX: Female

DAY ON TEST: 645

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- \* Uterus
- Vagina

OBSERVATIONS

- \* Bone Marrow: Hypercellularity, Marked
- \* Brain: Necrosis, Minimal
- \* Heart: Cardiomyopathy, Minimal
- \* Kidney: Renal Tubule Epithelium, Papilla; Accumulation, Hyaline Droplet, Moderate; Hyperplasia, Minimal; Nephropathy, Chronicprogr, Minimal
- \* Liver: Eosinophilic Focus, Minimal; Extramedullary Hematopoiesis, Minimal
- \* Lung: Bile Duct; Hyperplasia, Minimal; Infiltration Cellular, Histocyte, Minimal  
[ Infiltration Cellular TGLs = 3 - 20 ]
- \* Mammary Gland: Adenoma, Minimal  
[ Adenoma TGLs = 2 - 19 ]
- \* Nose: Olfactory Epi; Accumulation, Hyaline Droplet, Mild; Respirat Epith; Accumulation, Hyaline Droplet, Minimal; Inflammation, Chronic Active, Mild; Skeletal Muscle; Hemorrhage, Marked  
[ Hemorrhage TGLs = 1 - 18 ]
- \* Spleen: Extramedullary Hematopoiesis, Moderate
- \* Stomach, Glandular: Glands; Dysplasia, Minimal; Mineral, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 270

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 645

**DOSE:** 0 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300815

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

---

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemorrhage

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 271

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Pancreas
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Forestomach
- \* Trachea
- \* Urinary Bladder
- Blood Vessel
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Glandular
- Vagina
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland

OBSERVATIONS

- \* Kidney Nephropathy Chronicprogr, Minimal
- \* Liver Clear Cell Focus
- \* Lung Bronchiole Hyperplasia Minimal
- [ Infiltration Cellular TGLs = 2 - 6+7 ] Infiltration Cellular Histocyte, Moderate
- Inflammation Granulomatous, Minimal
- \* Mammary Gland Fibroadenoma
- [ Fibroadenoma TGLs = 1 - 20 ] Hyperplasia Minimal
- \* Nose Olfactory Epi Accumulation, Hyaline Droplet Marked
- \* Ovary Bilateral Atrophy Moderate
- Follicle Cyst
- \* Spleen Extramedullary Hematopoiesis Mild
- Pigment Minimal
- \* Thymus Atrophy Moderate
- \* Uterus Endometrium Hyperplasia Cystic, Moderate
- Endometrium Squamous Metaplasia Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 272

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla           | Blood Vessel             | * Brain                    |
| * Clitoral Gland         | * Esophagus                 | * Eye                    | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Ovary                  | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands        | * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder        | Vagina                      |                          |                            |

OBSERVATIONS

- |  |               |                               |                             |
|--|---------------|-------------------------------|-----------------------------|
| * Bone   |               | Osteopetrosis                 | Marked                      |
| * Bone Marrow  |               | Myelofibrosis                 | Mild                        |
| * Harderian Gland  |               | Atrophy                       | Mild                        |
| * Heart  |               | Cardiomyopathy                | Minimal                     |
| * Intestine Large, Rectum  |               | Fibrosarcoma                  | Metastatic (Skin)           |
| Note: Rectum = grossly dilated, original B20 was embedded at a tangent so non-diagnostic; 20I shows dilatation = due to metastatic fibrosarcoma. |               |                               |                             |
| [ Fibrosarcoma TGLs = 3 - 20 ]   |               |                               |                             |
| * Kidney   |               | Nephropathy                   | Chronicprogr, Minimal       |
| Lacrimal Gland   |               | Carcinoma                     |                             |
| [ Carcinoma TGLs = 2 - 19 ]  |               |                               |                             |
| * Lung   |               | Carcinoma                     | Metastatic (Lacrimal Gland) |
|  |               | Fibrosarcoma                  | Metastatic (Skin)           |
| * Mammary Gland  |               | Hyperplasia                   | Mild                        |
|  |               | Infiltration Cellular         | Mononuclear CI, Moderate    |
| * Nose   | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate                    |
|  |               | Carcinoma                     | Metastatic (Lacrimal Gland) |
| Note: There is extension of facial tumor through bone and under nasal mucosa behind the orbit.   |               |                               |                             |
| * Skin   | Subcut Tiss   | Fibrosarcoma                  |                             |
| [ Fibrosarcoma TGLs = 1 - 18 ]   |               |                               |                             |
| * Spleen   |               | Extramedullary Hematopoiesis  | Moderate                    |
|  |               | Pigment                       | Minimal                     |
| * Stomach, Forestomach   | Epithelium    | Hyperplasia                   | Mild                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 272

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 726

**DOSE:** 0 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300817

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

\* Uterus

Inflammation

Ulcer

Atrophy

Polyp Stromal

Chronic Active, Minimal

Mild

Marked

---

PRIMARY CAUSE OF DEATH

- Lacrimal Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 273

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | Blood Vessel             | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney                  |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |
| Vagina                      |                          |                            |                           |

OBSERVATIONS

- |                      |  |                               |                  |
|----------------------|--|-------------------------------|------------------|
| * Adrenal Cortex     |  | Degeneration                  | Cystic, Minimal  |
| * Bone Marrow        |  | Hypercellularity              | Minimal          |
| * Islets, Pancreatic |  | Hyperplasia                   | Minimal          |
| * Lung               |  | Infiltration Cellular         | Histiocyte, Mild |
|                      | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                  |
| * Mammary Gland      |  | Fibroadenoma                  |                  |
|                      | [ Fibroadenoma TGLs = 1 - 20 ]           |                               |                  |
| * Nose               | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild             |
| * Ovary              | Bilateral                                | Atrophy                       | Moderate         |
| * Spleen             |  | Extramedullary Hematopoiesis  | Mild             |
|                      |  | Pigment                       | Mild             |
| * Thymus             |  | Atrophy                       | Mild             |
| * Thyroid Gland      | C Cell                                   | Adenoma                       |                  |
|                      | C Cell                                   | Hyperplasia                   | Mild             |
| * Uterus             | Endometrium                              | Hyperplasia                   | Cystic, Minimal  |
|                      | Endometrium                              | Squamous Metaplasia           | Mild             |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 274

TRT#: 2

SEX: Female

DAY ON TEST: 588

DOSE: 0 ppm Female

DISP: Natural Death

HISTO: 1300819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Pancreas                | * Parathyroid Gland         | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | * Uterus                    | Vagina                   |

OBSERVATIONS

- |                   |                                     |                               |                       |
|-------------------|-------------------------------------|-------------------------------|-----------------------|
| * Kidney          |                                     | Nephropathy                   | Chronicprogr, Minimal |
| * Lung            |                                     | Infiltration Cellular         | Histiocyte, Minimal   |
| * Mammary Gland   |                                     | Fibroadenoma                  | Multiple              |
|                   | [ Fibroadenoma TGLs = 1,2 - 18+19 ] |                               |                       |
| * Nose            | Olfactory Epi                       | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary           | Bilateral                           | Atrophy                       | Mild                  |
| * Pituitary Gland | Pars Distalis                       | Adenoma                       |                       |
|                   | [ Adenoma TGLs = 3 - 11 ]           |                               |                       |
| * Spleen          | White Pulp                          | Atrophy                       | Mild                  |
|                   |                                     | Pigment                       | Moderate              |
| * Thymus          |                                     | Atrophy                       | Minimal               |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 275

TRT#: 2

SEX: Female

DAY ON TEST: 368

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |
| Vagina                      |                          |                            |                           |

OBSERVATIONS

- |                 |                                |                               |                       |
|-----------------|--------------------------------|-------------------------------|-----------------------|
| * Bone Marrow   |                                | Hypercellularity              | Marked                |
| * Heart         |                                | Cardiomyopathy                | Minimal               |
| * Kidney        |                                | Nephropathy                   | Chronicprogr, Minimal |
| * Lung          |                                | Infiltration Cellular         | Histiocyte, Mild      |
| * Mammary Gland |                                | Fibroadenoma                  |                       |
|                 | [ Fibroadenoma TGLs = 1 - 18 ] |                               |                       |
| * Nose          | Respirat Epith                 | Accumulation, Hyaline Droplet | Minimal               |
|                 | Olfactory Epi                  | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary         | Bilateral                      | Atrophy                       | Mild                  |
| * Spleen        |                                | Extramedullary Hematopoiesis  | Moderate              |
|                 |                                | Pigment                       | Minimal               |
| * Thymus        |                                | Atrophy                       | Moderate              |
| * Thyroid Gland | C Cell                         | Hyperplasia                   | Minimal               |
| * Uterus        | Endometrium                    | Squamous Metaplasia           | Minimal               |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE







Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 277

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300822

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Endometrium

Squamous Metaplasia

Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 278

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Forestomach
- Vagina
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Glandular

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1,3 - 20+21 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Bile Duct
- Angiectasis
- Hypercellularity
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Inflammation
- Squamous Metaplasia
- Mild
- Mild
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Granulomatous, Minimal
- Multiple
- Minimal
- Marked
- Mild
- Moderate
- Mild
- Minimal
- Minimal
- Suppurative, Moderate
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 279

TRT#: 2

SEX: Female

DAY ON TEST: 445

DOSE: 0 ppm Female

DISP: Natural Death

HISTO: 1300824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                           |                          |                            |
|--------------------------|---------------------------|--------------------------|----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla         | * Bone                   | * Brain                    |
| * Clitoral Gland         | * Eye                     | * Harderian Gland        | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Mammary Gland          | * Pituitary Gland         | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular     | * Urinary Bladder         | * Uterus                 | Vagina                     |

MISSING

- |              |                          |                     |                   |
|--------------|--------------------------|---------------------|-------------------|
| Blood Vessel | * Esophagus              | * Heart             | * Liver           |
| * Lung       | * Lymph Node, Mandibular | * Parathyroid Gland | * Salivary Glands |
| * Thymus     | * Thyroid Gland          | * Trachea           |                   |

AUTO PRECLUDES DIAG.

- |                             |                      |                          |            |
|-----------------------------|----------------------|--------------------------|------------|
| * Intestine Small, Duodenum | * Islets, Pancreatic | * Lymph Node, Mesenteric | * Pancreas |
| * Spleen                    |                      |                          |            |

OBSERVATIONS

- |               |               |                               |                       |
|---------------|---------------|-------------------------------|-----------------------|
| * Bone Marrow |               | Hypercellularity              | Marked                |
| * Kidney      |               | Nephropathy                   | Chronicprogr, Minimal |
| * Nose        | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal               |
| * Ovary       | Bilateral     | Atrophy                       | Moderate              |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Uterus
- \* Vagina
- \* Blood Vessel
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder

OBSERVATIONS

- \* Islets, Pancreatic
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Mammary Gland
  - \* Nose
  - \* Ovary
  - \* Pituitary Gland
  - \* Spleen
  - \* Thymus
- [ Hepatodiaphragmatic Nodule TGLs = 1 - 18 ]
- [ Hyperplasia TGLs = 2 - 6+7 ]
- [ Fibroadenoma TGLs = 3 - 19 ]
- Epithelium, Papilla
- Adenoma
- Hyperplasia
- Nephropathy
- Cholangiofibrosis
- Clear Cell Focus
- Hepatodiaphragmatic Nodule
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Minimal
- Chronicprogr, Minimal
- Minimal
- Lymphocyte, Mild
- Histiocyte, Minimal
- Moderate
- Mild
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 281

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow            | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                    | * Harderian Gland           | * Heart                  | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland          | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Salivary Glands        | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Trachea                | * Urinary Bladder           | * Uterus                 | Vagina                     |

OBSERVATIONS

- |                           |  |                               |                       |
|---------------------------|--|-------------------------------|-----------------------|
| * Intestine Large, Rectum |  | Parasite Metazoan             |                       |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Minimal |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                           | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                       |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
|                           | Respirat Epith                           | Accumulation, Hyaline Droplet | Minimal               |
| * Pituitary Gland         | Pars Distalis                            | Hyperplasia                   | Minimal               |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                  |
|                           |  | Pigment                       | Mild                  |
| * Thymus                  |  | Atrophy                       | Mild                  |
| * Thyroid Gland           | C Cell                                   | Hyperplasia                   | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 282

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Stomach, Glandular
- Vagina
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Thyroid Gland
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Salivary Glands
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Lung
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Lymph Node, Mesenteric
- [ Hemorrhage TGLs = 4 - 9 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 3 - 20 ]
- \* Nose
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- \* Skin
- [ Lipoma TGLs = 2 - 19 ]
- \* Spleen
- \* Thymus
- \* Uterus
- Degeneration
- Hypercellularity
- Nephropathy
- Infiltration Cellular
- Inflammation
- Hemorrhage
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Basophilic Focus
- Adenoma
- Lipoma
- Extramedullary Hematopoiesis
- Atrophy
- Hyperplasia
- Cystic, Minimal
- Moderate
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Granulomatous, Minimal
- Moderate
- Marked
- Moderate
- Moderate
- Mild
- Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 283

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Kidney
- \* Liver
- Bile Duct
- \* Lung
  - [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
  - [ Fibroadenoma TGLs = 1 - 18 ]
  - [ Galactocele TGLs = 2 - 19 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
  - [ Adenoma TGLs = 4 - 11 ]
- \* Spleen
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Hyperplasia
- Adenoma
- Nephropathy
- Basophilic Focus
- Extramedullary Hematopoiesis
- Hyperplasia
- Necrosis
- Infiltration Cellular
- Fibroadenoma
- Galactocele
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Cystic, Mild
- Marked
- Minimal
- Lymphocyte, Moderate
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Marked
- Marked
- Moderate
- Mild
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 283

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300828

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Atrophy

Minimal

\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Endometrium

Squamous Metaplasia

Minimal

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 284

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 ppm Female

DISP: Natural Death

HISTO: 1300829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Clitoral Gland            |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Ovary                    | * Pancreas                | * Salivary Glands           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Trachea                   |
| * Urinary Bladder        | * Uterus                   | Vagina                    |                             |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex  |  | Degeneration                  | Cystic, Minimal       |
| * Bone Marrow     |  | Hypercellularity              | Moderate              |
| * Brain           |  | Hemorrhage                    | Marked                |
|                   | [ Hemorrhage TGLs = 4 - 4+5 ]            |                               |                       |
| * Kidney          |  | Leukemia Mononuclear          |                       |
|                   |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |  | Leukemia Mononuclear          |                       |
|                   | [ Necrosis TGLs = 2 - 19 ]               | Necrosis                      | Mild                  |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Minimal   |
|                   | [ Infiltration Cellular TGLs = 3 - 6+7 ] | Leukemia Mononuclear          |                       |
| * Mammary Gland   |  | Hyperplasia                   | Mild                  |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal               |
| * Spleen          |  | Hemorrhage                    | Marked                |
|                   |  | Leukemia Mononuclear          |                       |
|                   | [ Leukemia Mononuclear TGLs = 1 - 18 ]   |                               |                       |
| * Thymus          |  | Leukemia Mononuclear          |                       |
| * Thyroid Gland   | C Cell                                   | Adenoma                       |                       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 284

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 0 ppm Female

**DISP:** Natural Death

**HISTO:** 1300829

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Brain Hemorrhage

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 285

TRT#: 2

SEX: Female

DAY ON TEST: 634

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Forestomach
- Vagina
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Glandular
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Skin
- \* Urinary Bladder

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Bone Marrow
  - \* Kidney
  - \* Liver
  - \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
  - \* Nose
  - \* Ovary
  - \* Spleen
  - \* Thymus
  - \* Thyroid Gland
  - \* Uterus
  - [ Dilatation TGLs = 1 - 17+18+19+20 ]
- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>Respirat Epith</li> <li>Olfactory Epi</li> <li>Bilateral</li> <li>C Cell</li> <li>C Cell</li> <li>Endometrium</li> </ul> | <ul style="list-style-type: none"> <li>Hypercellularity</li> <li>Nephropathy</li> <li>Extramedullary Hematopoiesis</li> <li>Infiltration Cellular</li> <li>Accumulation, Hyaline Droplet</li> <li>Accumulation, Hyaline Droplet</li> <li>Atrophy</li> <li>Extramedullary Hematopoiesis</li> <li>Atrophy</li> <li>Adenoma</li> <li>Hyperplasia</li> <li>Dilation</li> <li>Squamous Metaplasia</li> </ul> |
|---|---|

- Marked
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Minimal
- Moderate
- Moderate
- Moderate
- Mild
- Moderate
- Moderate
- Marked
- Marked

PRIMARY CAUSE OF DEATH

- Uterus Dilatation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 286

TRT#: 2

SEX: Female

DAY ON TEST: 616

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Forestomach
- Vagina
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Thyroid Gland
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Salivary Glands
- \* Trachea
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Liver
- \* Pancreas
- \* Skin
- \* Urinary Bladder

MISSING

- \* Thymus

OBSERVATIONS

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Rectum
- \* Kidney
- \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose
- \* Ovary
- \* Spleen
  - [ Hemangiosarcoma TGLs = 1 - 18 ]
- \* Stomach, Glandular
- \* Uterus
- Retina
- Olfactory Epi
- Bilateral
- Endometrium
- Endometrium
- Hypercellularity
- Dysplasia
- Parasite Metazoan
- Nephropathy
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Hemangiosarcoma
- Mineral
- Hyperplasia
- Squamous Metaplasia
- Moderate
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Moderate
- Moderate
- Minimal
- Cystic, Mild
- Mild

PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 287

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Kidney                  | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Trachea                   | * Urinary Bladder        | Vagina                     |

OBSERVATIONS

- |                                |               |                               |                     |
|--------------------------------|---------------|-------------------------------|---------------------|
| * Bone Marrow                  |               | Hypercellularity              | Moderate            |
| * Islets, Pancreatic           |               | Adenoma                       |                     |
| [ Adenoma TGLs = 4 - 20 ]      |               |                               |                     |
| * Liver                        |               | Basophilic Focus              |                     |
|                                |               | Clear Cell Focus              |                     |
|                                | Bile Duct     | Hyperplasia                   | Minimal             |
| * Lung                         |               | Infiltration Cellular         | Histiocyte, Minimal |
| * Mammary Gland                |               | Fibroadenoma                  |                     |
|                                |               | Hyperplasia                   | Minimal             |
| [ Fibroadenoma TGLs = 1 - 19 ] |               |                               |                     |
| * Nose                         | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate            |
| * Ovary                        | Bilateral     | Atrophy                       | Mild                |
| * Pituitary Gland              | Pars Distalis | Hyperplasia                   | Mild                |
| [ Hyperplasia TGLs = 3 - 11 ]  |               |                               |                     |
| * Spleen                       |               | Extramedullary Hematopoiesis  | Mild                |
|                                |               | Pigment                       | Minimal             |
| * Thymus                       |               | Atrophy                       | Minimal             |
| * Thyroid Gland                | C Cell        | Hyperplasia                   | Minimal             |
| * Uterus                       |               | Cyst                          | Squamous            |
| [ Cyst TGLs = 2 - 18 ]         |               |                               |                     |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 289

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Liver
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Skin
- \* Trachea

OBSERVATIONS

- \* Bone Marrow
  - \* Heart
  - \* Kidney
  - \* Lung
    - [ Infiltration Cellular TGLs = 3 - 6+7 ]
  - \* Nose
    - Respirat Epith
    - Olfactory Epi
  - \* Ovary
    - Bilateral
    - Follicle
    - [ Cyst TGLs = 2 - 15 ]
  - \* Pituitary Gland
    - [ Adenoma TGLs = 4 - 11 ]
    - Pars Distalis
  - \* Spleen
  - \* Thymus
  - \* Uterus
    - Endometrium
    - Endometrium
- Hypercellularity
  - Cardiomyopathy
  - Nephropathy
  - Infiltration Cellular
  - Accumulation, Hyaline Droplet
  - Accumulation, Hyaline Droplet
  - Atrophy
  - Cyst
  - Adenoma
  - Extramedullary Hematopoiesis
  - Pigment
  - Atrophy
  - Adenomyosis
  - Cyst
  - Hyperplasia
  - Inflammation
  - Polyp Stromal
  - Squamous Metaplasia
- Mild
  - Minimal
  - Chronicprogr, Minimal
  - Histiocyte, Moderate
  - Minimal
  - Marked
  - Mild
  - Mild
  - Mild
  - Mild
  - Minimal
  - Squamous
  - Cystic, Minimal
  - Suppurative, Mild
  - Multiple
  - Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 289

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300834

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: Two cysts present with different morphologies.

[ Cyst TGLs = 1 - 19 ]

[ Polyp Stromal TGLs = 1 - 16 ]

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 290

TRT#: 2

SEX: Female

DAY ON TEST: 560

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Bone Marrow
- \* Clitoral Gland
- \* Esophagus
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Liver
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Brain
  - Meningioma Malignant
  - Note: Meningioma extends along olfactory nerves (B01) and caudad as far as optic chiasm (B03), replaces eye (B18), Harderian (B13, B19), and along pituitary (B11).
  - [ Meningioma Malignant TGLs = 3 - 20 ]
- \* Eye
  - Meningioma Malignant
  - Note: Meningioma replaces left eye (TGL-1, B18).
  - [ Meningioma Malignant TGLs = 1 - 18 ]
  - Metastatic (Brain)
- \* Harderian Gland
  - Meningioma Malignant
  - [ Meningioma Malignant TGLs = 2 - 19 ]
  - Metastatic (Brain)
- \* Kidney
  - Nephropathy
  - Chronicprogr, Minimal
- \* Lung
  - Infiltration Cellular TGLs = 4 - 6+7 ]
  - Infiltration Cellular
  - Histiocyte, Moderate
- \* Nose
  - Olfactory Epi
  - Accumulation, Hyaline Droplet
  - Mild
- \* Ovary
  - Bilateral
  - Atrophy
  - Moderate
- \* Pancreas
  - Acinus
  - Atrophy
  - Minimal
- \* Spleen
  - White Pulp
  - Atrophy
  - Mild
  - Extramedullary Hematopoiesis
  - Mild
  - Pigment
  - Minimal
- \* Thymus
  - Atrophy
  - Moderate
- \* Uterus
  - Endometrium
  - Hyperplasia
  - Cystic, Minimal

PRIMARY CAUSE OF DEATH - Brain Meningioma Malignant

Animal Note: Although meningioma is listed as metastatic in several organs, it is actually invasive from site of origin (invasive is not an available qualifier in TDMSE).

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 291

TRT#: 2

SEX: Female

DAY ON TEST: 592

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Liver		Extramedullary Hematopoiesis	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Mild
* Uterus		Thrombus	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 292

TRT#: 2

SEX: Female

DAY ON TEST: 524

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | Blood Vessel             | * Bone                      | * Brain                  |
| * Clitoral Gland           | * Esophagus              | * Eye                       | * Harderian Gland        |
| * Heart                    | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Pancreas                 | * Parathyroid Gland      | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach   | * Stomach, Glandular        | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder        | * Uterus                    | Vagina                   |

OBSERVATIONS

- |                           |  |                               |                       |
|---------------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex          |  | Thrombus                      | Mild                  |
| * Bone Marrow             |  | Hypercellularity              | Marked                |
| * Intestine Large, Colon  |  | Parasite Metazoan             |                       |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                       |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                   |  | Necrosis                      | Moderate              |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild      |
|                           | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Mammary Gland           |  | Fibroadenoma                  |                       |
|                           |  | Hyperplasia                   | Marked                |
|                           | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                       |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary                   | Follicle                                 | Cyst                          |                       |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Moderate              |
| * Thymus                  |  | Atrophy                       | Moderate              |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 293

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus	Vagina		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hyperplasia	Mild
		Thrombus	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[ Fibroadenoma TGLs = 1 - 20 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bursa	Cyst	
	[ Cyst TGLs = 2 - 15 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 294

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas                | * Parathyroid Gland         |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         | Vagina                      |

OBSERVATIONS

- |   |                |                               |                       |
|---|----------------|-------------------------------|-----------------------|
| * Adrenal Cortex  |                | Degeneration                  | Cystic, Minimal       |
| * Bone Marrow   |                | Hypercellularity              | Moderate              |
| * Heart   |                |                               |                       |
| Note: Ectopic C-cells present within heart base.                  |                |                               |                       |
| * Intestine Large, Colon  |                | Parasite Metazoan             |                       |
| * Kidney  |                | Nephropathy                   | Chronicprogr, Minimal |
| * Lung  | Alveolar Epith | Hyperplasia                   | Minimal               |
|   |                | Infiltration Cellular         | Histiocyte, Moderate  |
| [ Infiltration Cellular TGLs = 2 - 6+7 ]                          |                |                               |                       |
| * Mammary Gland   |                | Fibroadenoma                  | Multiple              |
| Note: Additional fibroadenoma in B14 adjacent to clitoral glands. |                |                               |                       |
| [ Fibroadenoma TGLs = 1 - 18 ]                                    |                |                               |                       |
| * Nose  | Olfactory Epi  | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary   | Bilateral      | Atrophy                       | Mild                  |
|   |                | Granulosa Cell Tumor Benign   |                       |
| * Pituitary Gland   | Pars Distalis  | Hyperplasia                   | Moderate              |
| * Spleen  |                | Extramedullary Hematopoiesis  | Mild                  |
|   |                | Pigment                       | Mild                  |
| * Thymus  |                | Atrophy                       | Minimal               |
| * Uterus  | Endometrium    | Adenocarcinoma                |                       |
|   | Endometrium    | Hyperplasia                   | Cystic, Moderate      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 295

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow            | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                    | * Harderian Gland           | * Heart                  | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland      | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular     | * Trachea                   | * Urinary Bladder        | Vagina                     |

OBSERVATIONS

- |                           |  |                               |                       |
|---------------------------|--|-------------------------------|-----------------------|
| * Intestine Large, Rectum |  | Parasite Metazoan             |                       |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                   |  | Clear Cell Focus              |                       |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild      |
|                           | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Mammary Gland           |  | Fibroadenoma                  |                       |
|                           | [ Fibroadenoma TGLs = 1 - 20 ]           |                               |                       |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                |
| * Ovary                   | Bilateral                                | Atrophy                       | Moderate              |
| * Pituitary Gland         | Pars Distalis                            | Hyperplasia                   | Moderate              |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                  |
|                           |  | Pigment                       | Mild                  |
| * Thymus                  |  | Atrophy                       | Mild                  |
| * Thyroid Gland           | C Cell                                   | Hyperplasia                   | Moderate              |
| * Uterus                  | Endometrium                              | Hyperplasia                   | Cystic, Mild          |
|                           | Endometrium                              | Squamous Metaplasia           | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 296

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Salivary Glands
- \* Urinary Bladder
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Skin
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Stomach, Forestomach
- \* Bone
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Trachea

OBSERVATIONS

- \* Bone Marrow
- \* Eye
- \* Kidney
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1,2 - 18+19 ]
- \* Nose
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- [ Adenoma TGLs = 5 - 21 ]
- \* Spleen
- \* Stomach, Glandular
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Retina
- Olfactory Epi
- Bilateral
- Pars Distalis
- C Cell
- Cervix
- Endometrium
- Endometrium
- [ Granular Cell Tumor Benign TGLs = 4 - 20 ]
- Hypercellularity
- Degeneration
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Polyarteritis Nodosa
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Atrophy
- Hyperplasia
- Granular Cell Tumor Benign
- Hyperplasia
- Squamous Metaplasia
- Mild
- Minimal
- Chronicprogr, Mild
- Histiocyte, Marked
- Granulomatous, Mild
- Multiple
- Marked
- Moderate
- Minimal
- Mild
- Moderate
- Minimal
- Mild
- Minimal
- Mild
- Minimal
- Minimal
- Cystic, Minimal
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 297

TRT#: 2

SEX: Female

DAY ON TEST: 561

DOSE: 0 ppm Female

DISP: Natural Death

HISTO: 1300842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

MISSING

- \* Pituitary Gland

OBSERVATIONS

- \* Bone Marrow
  - \* Clitoral Gland
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Ovary
  - [ Cyst TGLs = 3 - 18 ]
  - \* Spleen
  - \* Thymus
  - \* Uterus
  - [ Dilatation TGLs = 1 - 16+17 ]
- |  |                               |                        |
|--|-------------------------------|------------------------|
|  | Hypercellularity              | Marked                 |
|  | Inflammation                  | Chronic Active, Marked |
|  | Nephropathy                   | Chronicprogr, Minimal  |
|  | Hyperplasia                   | Minimal                |
|  | Infiltration Cellular         | Histiocyte, Moderate   |
|  | Accumulation, Hyaline Droplet | Moderate               |
|  | Atrophy                       | Mild                   |
|  | Cyst                          |                        |
|  | Atrophy                       | Minimal                |
|  | Extramedullary Hematopoiesis  | Mild                   |
|  | Atrophy                       | Minimal                |
|  | Dilation                      | Marked                 |
|  | Inflammation                  | Chronic Active, Mild   |
|  | Squamous Metaplasia           | Marked                 |

PRIMARY CAUSE OF DEATH

- Uterus Inflammation

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 299

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                   | * Bone Marrow               |
| * Brain                  | * Clitoral Gland           | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                    |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Ovary                  | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands        | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                | * Urinary Bladder           |
| Vagina                   |                            |                          |                             |

OBSERVATIONS

- |                           |  |                               |                  |
|---------------------------|--|-------------------------------|------------------|
| * Adrenal Cortex          |  | Degeneration                  | Cystic, Minimal  |
| * Heart                   |  | Cardiomyopathy                | Minimal          |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                  |
| * Liver                   |  | Clear Cell Focus              |                  |
|                           |  | Eosinophilic Focus            |                  |
|                           | Bile Duct                                | Hyperplasia                   | Mild             |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild |
|                           | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                  |
| * Mammary Gland           |  | Hyperplasia                   | Mild             |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate         |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild             |
|                           |  | Pigment                       | Mild             |
| * Thymus                  |  | Atrophy                       | Mild             |
| * Thyroid Gland           | C Cell                                   | Adenoma                       |                  |
| * Uterus                  |  | Deciduoma Benign              |                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 300

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Pancreas                | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Trachea                   | * Urinary Bladder        | Vagina                     |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |                                 |                               |                       |
|-------------------|---------------------------------|-------------------------------|-----------------------|
| * Bone Marrow     |                                 | Hypercellularity              | Mild                  |
| * Kidney          |                                 | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |                                 | Clear Cell Focus              |                       |
| * Mammary Gland   |                                 | Hyperplasia                   | Minimal               |
| * Nose            | Olfactory Epi                   | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary           | Bilateral                       | Atrophy                       | Moderate              |
|                   | Follicle                        | Cyst                          |                       |
|                   | [ Cyst TGLs = 1 - 15 ]          |                               |                       |
| * Pituitary Gland | Pars Distalis                   | Hyperplasia                   | Mild                  |
| * Spleen          |                                 | Extramedullary Hematopoiesis  | Moderate              |
|                   |                                 | Pigment                       | Minimal               |
| * Thymus          |                                 | Atrophy                       | Mild                  |
| * Thyroid Gland   | C Cell                          | Hyperplasia                   | Minimal               |
| * Uterus          | Endometrium                     | Hyperplasia                   | Cystic, Minimal       |
|                   |                                 | Polyp Stromal                 |                       |
|                   | Endometrium                     | Squamous Metaplasia           | Minimal               |
|                   | [ Polyp Stromal TGLs = 2 - 16 ] |                               |                       |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
Vagina			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
		Inflammation	Chronic Active, Minimal
* Ovary	Bilateral	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Squamous Metaplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 | * Parathyroid Gland       |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | Vagina                    |

OBSERVATIONS

- |                   |                                  |                               |                        |
|-------------------|----------------------------------|-------------------------------|------------------------|
| * Bone Marrow     |                                  | Hypercellularity              | Marked                 |
| * Heart           |                                  | Cardiomyopathy                | Minimal                |
| * Kidney          |                                  | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver           |                                  | Pigment                       | Minimal                |
| * Lung            |                                  | Inflammation                  | Granulomatous, Minimal |
| * Mammary Gland   |                                  | Adenocarcinoma                |                        |
|                   |                                  | Hyperplasia                   | Minimal                |
|                   | [ Adenocarcinoma TGLs = 1 - 18 ] |                               |                        |
| * Nose            | Olfactory Epi                    | Accumulation, Hyaline Droplet | Moderate               |
| * Ovary           | Bilateral                        | Atrophy                       | Mild                   |
|                   | Bursa                            | Cyst                          |                        |
| * Pituitary Gland | Pars Distalis                    | Hyperplasia                   | Minimal                |
| * Spleen          |                                  | Extramedullary Hematopoiesis  | Mild                   |
| * Thymus          |                                  | Atrophy                       | Mild                   |
| * Uterus          | Endometrium                      | Hyperplasia                   | Cystic, Mild           |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 659

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Thyroid Gland
- Vagina
- Blood Vessel
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder

OBSERVATIONS

- \* Intestine Large, Cecum
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Uterus
- Bile Duct
- Parasite Metazoan
- Nephropathy
- Hyperplasia
- Necrosis
- Infiltration Cellular
- Fibroadenoma
- Olfactory Epi
- Bilateral
- Bursa
- Pars Distalis
- Endometrium
- Endometrium
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Pigment
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Squamous Metaplasia
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Multiple
- Marked
- Moderate
- Moderate
- Minimal
- Minimal
- Mild
- Cystic, Mild
- Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Brain                  | * Clitoral Gland           | * Esophagus               | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Nose                     | * Pancreas                | * Parathyroid Gland         |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Trachea                | * Urinary Bladder          | Vagina                    |                             |

OBSERVATIONS

- |                          |  |                              |                      |
|--------------------------|--|------------------------------|----------------------|
| * Bone Marrow            |  | Hypercellularity             | Minimal              |
| * Heart                  |  | Cardiomyopathy               | Minimal              |
| * Intestine Large, Colon |  | Parasite Metazoan            |                      |
| * Kidney                 |  | Nephropathy                  | Chronicprogr, Mild   |
| * Liver                  |  | Clear Cell Focus             |                      |
| * Lung                   |  | Infiltration Cellular        | Histiocyte, Moderate |
|                          | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                              |                      |
| * Mammary Gland          |  | Fibroadenoma                 |                      |
|                          | [ Fibroadenoma TGLs = 1 - 18 ]           |                              |                      |
| * Ovary                  | Bilateral                                | Atrophy                      | Moderate             |
| * Pituitary Gland        | Pars Distalis                            | Adenoma                      |                      |
|                          | [ Adenoma TGLs = 3 - 11 ]                |                              |                      |
| * Spleen                 |  | Extramedullary Hematopoiesis | Mild                 |
|                          |  | Pigment                      | Mild                 |
| * Thymus                 |  | Atrophy                      | Mild                 |
| * Thyroid Gland          |  | Inflammation                 | Acute, Minimal       |
| * Uterus                 | Endometrium                              | Hyperplasia                  | Cystic, Mild         |
|                          | Endometrium                              | Squamous Metaplasia          | Mild                 |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow            | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                    | * Harderian Gland           | * Heart                  | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland      | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular     | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                 | Vagina                      |                          |                            |

OBSERVATIONS

- |                           |  |                               |                       |
|---------------------------|--|-------------------------------|-----------------------|
| * Intestine Large, Rectum |  | Parasite Metazoan             |                       |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                   |  | Clear Cell Focus              |                       |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild      |
|                           | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                       |
| * Mammary Gland           |  | Adenoma                       |                       |
|                           |  | Hyperplasia                   | Mild                  |
|                           | [ Adenoma TGLs = 2 - 18 ]                |                               |                       |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal               |
| * Ovary                   | Bilateral                                | Atrophy                       | Minimal               |
| * Pituitary Gland         | Pars Distalis                            | Hyperplasia                   | Minimal               |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                  |
|                           |  | Pigment                       | Mild                  |
| * Thymus                  |  | Atrophy                       | Moderate              |

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Marked
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
	Hepatocyte	Extramedullary Hematopoiesis	Minimal
* Lung		Hypertrophy	Minimal
		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 4 - 6+7 ]	Inflammation	Granulomatous, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLs = 1,2 - 18+19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Moderate
	Germinal Epith	Cyst	
	[ Cyst TGLs = 3 - 15 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Marked
		Ulcer	Marked
	[ Inflammation TGLs = 5 - 20 ]		
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 309

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 300 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300854

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Brain                  | * Clitoral Gland           | * Esophagus               | * Eye                       |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         | * Uterus                    |
| Vagina                   |                            |                           |                             |

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow     |  | Hypercellularity              | Mild                  |
| * Harderian Gland |  | Atrophy                       | Minimal               |
| * Heart           |  | Cardiomyopathy                | Minimal               |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |  | Basophilic Focus              |                       |
|                   | Bile Duct                                | Hyperplasia                   | Minimal               |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Minimal   |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Mammary Gland   |  | Hyperplasia                   | Minimal               |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary           | Bursa                                    | Cyst                          |                       |
|                   | [ Cyst TGLs = 1 - 15 ]                   |                               |                       |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                  |
|                   |  | Pigment                       | Mild                  |
| * Thymus          |  | Atrophy                       | Marked                |

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Marked
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
* Ovary	Bilateral	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	[ Hyperplasia TGLs = 2 - 11 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Squamous Metaplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | Blood Vessel              | * Bone                      | * Brain                  |
| * Clitoral Gland           | * Esophagus               | * Eye                       | * Harderian Gland        |
| * Intestine Large, Cecum   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Pancreas                | * Parathyroid Gland         | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Trachea                |
| * Urinary Bladder          | Vagina                    |                             |                          |

OBSERVATIONS

- |                          |  |                               |                      |
|--------------------------|--|-------------------------------|----------------------|
| * Adrenal Cortex         |  | Angiectasis                   | Mild                 |
| * Bone Marrow            |  | Hypercellularity              | Minimal              |
| * Heart                  |  | Cardiomyopathy                | Minimal              |
| * Intestine Large, Colon |  | Parasite Metazoan             |                      |
| * Liver                  |  | Eosinophilic Focus            |                      |
| * Lung                   |  | Infiltration Cellular         | Histiocyte, Moderate |
|                          | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                      |
| * Mammary Gland          |  | Fibroadenoma                  |                      |
|                          | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                      |
| * Nose                   | Respirat Epith                           | Accumulation, Hyaline Droplet | Minimal              |
|                          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate             |
| * Ovary                  | Bilateral                                | Atrophy                       | Mild                 |
|                          | Bursa                                    | Cyst                          |                      |
| * Pituitary Gland        | Pars Distalis                            | Hyperplasia                   | Mild                 |
| * Spleen                 |  | Extramedullary Hematopoiesis  | Mild                 |
|                          |  | Pigment                       | Minimal              |
| * Thymus                 |  | Atrophy                       | Mild                 |
| * Thyroid Gland          | C Cell                                   | Adenoma                       |                      |
| * Uterus                 | Endometrium                              | Hyperplasia                   | Cystic, Minimal      |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |
| * Uterus                    | Vagina                   |                            |                           |

OBSERVATIONS

- |                 |  |                               |                       |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow   |  | Hypercellularity              | Minimal               |
| * Heart         |  | Cardiomyopathy                | Minimal               |
| * Kidney        |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver         | Hepatocyte                               | Cytoplasmic Alteration        | Minimal               |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Mild      |
|                 | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                       |
| * Mammary Gland |  | Hyperplasia                   | Mild                  |
| Mesentery       | Fat                                      | Necrosis                      | Minimal               |
|                 | [ Necrosis TGLs = 1,2 - 18+19 ]          |                               |                       |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary         | Follicle                                 | Cyst                          |                       |
| * Spleen        |  | Extramedullary Hematopoiesis  | Mild                  |
|                 |  | Pigment                       | Mild                  |
| * Thymus        |  | Atrophy                       | Moderate              |

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 528

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Uterus
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Ovary
- \* Salivary Glands
- \* Thyroid Gland
- Vagina
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pancreas
- \* Skin
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
  - [ Necrosis TGLs = 1 - 12 ]
- \* Lung
- \* Mammary Gland
  - [ Fibroadenoma TGLs = 2,3 - 18+19 ]
- \* Nose
- \* Spleen
- \* Thymus
- Metaplasia
- Hypercellularity
- Parasite Metazoan
- Nephropathy
- Necrosis
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Osseous, Moderate
- Marked
- Chronicprogr, Minimal
- Moderate
- Histiocyte, Mild
- Multiple
- Mild
- Mild
- Moderate
- Minimal
- Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * Bone                    | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Pancreas                  |
| * Salivary Glands        | * Stomach, Forestomach     | * Stomach, Glandular      | * Trachea                   |
| * Urinary Bladder        | Vagina                     |                           |                             |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |  |                               |                  |
|-------------------|--|-------------------------------|------------------|
| * Adrenal Medulla |  | Hyperplasia                   | Marked           |
| * Bone Marrow     |  | Hypercellularity              | Moderate         |
| * Heart           |  | Cardiomyopathy                | Minimal          |
| * Liver           |  | Extramedullary Hematopoiesis  | Minimal          |
| * Lung            | Bile Duct                                | Hyperplasia                   | Minimal          |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] | Infiltration Cellular         | Histiocyte, Mild |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked           |
| * Ovary           | Bilateral                                | Atrophy                       | Mild             |
| * Pituitary Gland | Pars Distalis                            | Adenoma                       |                  |
| * Skin            | Subcut Tiss                              | Fibroma                       |                  |
|                   | [ Fibroma TGLs = 1 - 18 ]                |                               |                  |
| * Spleen          |  | Extramedullary Hematopoiesis  | Moderate         |
| * Thymus          |  | Atrophy                       | Mild             |
| * Thyroid Gland   | C Cell                                   | Adenoma                       |                  |
|                   | [ Adenoma TGLs = 3 - 11 ]                |                               |                  |
| * Uterus          |  | Polyp Stromal                 |                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 477

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	Vagina	

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Hypertrophy	Moderate
	Endothel Cell	Hypertrophy	Moderate
	[ Hypertrophy TGLs = 7 - 12 ]		
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 6 - 6+7 ]		
Lymph Node	Renal, Sinusoid	Dilation	Moderate
	Mediastinal	Hyperplasia	Plasma Cell, Moderate
	Pancreatic	Inflammation	Marked
	Renal	Sarcoma	Metastatic (Stomach, Forestomach)
	[ Dilation TGLs = 3-20 ]		
	[ Hyperplasia TGLs = 4 - 21 ]		
	[ Inflammation TGLs = 2 - 19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Marked
	[ Extramedullary Hematopoiesis TGLs = 1 - 18 ]		
* Stomach, Forestomach		Sarcoma	
	[ Sarcoma TGLs = 5 - 22+23 ]		
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

---

**ANIMAL ID:** 316

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 477

**DOSE:** 300 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300861

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Stomach, Forestomach Sarcoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 721

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Uterus
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland
- Vagina
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Skin
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1,2 - 18+19 ]
- \* Nose
- \* Ovary
- \* Spleen
- \* Thymus
- Necrosis
- Hypercellularity
- Nephropathy
- Necrosis
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Thrombus
- Cyst
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Mild
- Moderate
- Chronicprogr, Minimal
- Moderate
- Histiocyte, Minimal
- Multiple
- Mild
- Minimal
- Moderate
- Moderate
- Minimal
- Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Necrosis

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

OBSERVATIONS

* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 4 - 6+7 ]		
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	[ Fibroadenoma TGLs = 1,2,3 - 18+19+20 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
		Inflammation	Chronic Active, Minimal
* Ovary	Bilateral	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Cortex		Thrombus	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Epithelium, Papilla	Hyperplasia	Moderate
		Nephropathy	Chronicprogr, Moderate
* Lung		Inflammation	Granulomatous, Minimal
	[ Inflammation TGLs = 2 - 6+7 ]		
* Mammary Gland		Adenocarcinoma	
		Hyperplasia	Minimal
	[ Adenocarcinoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 3 - 11 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Stomach, Glandular		Mineral	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	Bilateral, C Cell	Hyperplasia	Marked
* Uterus		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Pancreas               |
| * Salivary Glands          | * Skin                    | * Stomach, Forestomach      | * Trachea                |
| * Urinary Bladder          | * Uterus                  | Vagina                      |                          |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                      |                                      |                               |                       |
|----------------------|--------------------------------------|-------------------------------|-----------------------|
| * Islets, Pancreatic |                                      | Hyperplasia                   | Mild                  |
| * Kidney             |                                      | Nephropathy                   | Chronicprogr, Minimal |
| * Liver              |                                      | Clear Cell Focus              |                       |
|                      | [ Eosinophilic Focus TGLs = 3 - 20 ] | Eosinophilic Focus            |                       |
| * Lung               |                                      | Infiltration Cellular         | Histiocyte, Minimal   |
| * Mammary Gland      |                                      | Fibroadenoma                  | Multiple              |
|                      | [ Fibroadenoma TGLs = 1,2 - 18+19 ]  | Hyperplasia                   | Mild                  |
| * Nose               | Olfactory Epi                        | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary              | Follicle                             | Cyst                          |                       |
|                      | [ Cyst TGLs = 4 - 15 ]               |                               |                       |
| * Pituitary Gland    | Pars Distalis                        | Hyperplasia                   | Minimal               |
| * Spleen             |                                      | Extramedullary Hematopoiesis  | Mild                  |
|                      |                                      | Pigment                       | Minimal               |
| * Stomach, Glandular |                                      | Mineral                       | Minimal               |
| * Thymus             |                                      | Atrophy                       | Mild                  |
| * Thyroid Gland      | C Cell                               | Hyperplasia                   | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus	Vagina		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hypercellularity	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Liver		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Minimal
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 585

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    | Vagina                   |                            |

OBSERVATIONS

- |                        |  |                               |                        |
|------------------------|--|-------------------------------|------------------------|
| * Bone Marrow          |  | Hypercellularity              | Marked                 |
| * Kidney               |  | Nephropathy                   | Chronicprogr, Moderate |
| * Lung                 |  | Infiltration Cellular         | Histiocyte, Mild       |
|                        | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                        |
| * Mammary Gland        |  | Galactocele                   | Mild                   |
| * Nose                 | Respirat Epith                           | Accumulation, Hyaline Droplet | Minimal                |
|                        | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate               |
| * Ovary                | Bilateral                                | Atrophy                       | Mild                   |
|                        | [ Schwannoma Malignant TGLs = 1 - 18 ]   | Schwannoma Malignant          |                        |
| * Spleen               |  | Extramedullary Hematopoiesis  | Moderate               |
|                        |  | Pigment                       | Minimal                |
| * Stomach, Forestomach | Epithelium                               | Hyperplasia                   | Moderate               |
| * Thymus               |  | Atrophy                       | Marked                 |

PRIMARY CAUSE OF DEATH - Ovary Schwannoma Malignant

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Pancreas
- \* Parathyroid Gland
- \* Skin
- \* Stomach, Forestomach
- \* Trachea
- \* Urinary Bladder
- Blood Vessel
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Glandular
- Vagina
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland

OBSERVATIONS

- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Ovary
- \* Spleen
- \* Thymus
- \* Uterus
- Bile Duct
- Olfactory Epi
- Bilateral
- Endometrium
- Endometrium
- Nephropathy
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Squamous Metaplasia
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Moderate
- Moderate
- Moderate
- Mild
- Minimal
- Mild
- Cystic, Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 592

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300871

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           | * Uterus                 | Vagina                     |                           |

**OBSERVATIONS**

- |                 |  |                               |                       |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow   |  | Hypercellularity              | Marked                |
| * Brain         |  | Gliosis                       | Mild                  |
| * Kidney        | Renal Tubule                                 | Accumulation, Hyaline Droplet | Minimal               |
|                 | Renal Tubule                                 | Hyperplasia                   | Atypical, Minimal     |
|                 |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver         |  | Eosinophilic Focus            |                       |
|                 |  | Hepatodiaphragmatic Nodule    |                       |
|                 | Bile Duct                                    | Hyperplasia                   | Minimal               |
|                 |  | Necrosis                      | Mild                  |
|                 | [ Hepatodiaphragmatic Nodule TGLs = 2 - 19 ] |                               |                       |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Minimal   |
|                 | [ Infiltration Cellular TGLs = 3 - 6 ]       |                               |                       |
| * Mammary Gland |  | Fibroadenoma                  |                       |
|                 |  | Hyperplasia                   | Mild                  |
|                 | [ Fibroadenoma TGLs = 1 - 18 ]               |                               |                       |
| * Nose          | Respirat Epith                               | Accumulation, Hyaline Droplet | Minimal               |
|                 | Olfactory Epi                                | Accumulation, Hyaline Droplet | Moderate              |
|                 | Respirat Epith                               | Hyperplasia                   | Minimal               |
| * Spleen        |  | Extramedullary Hematopoiesis  | Moderate              |
| * Thymus        |  | Atrophy                       | Mild                  |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Skin
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Liver
- \* Lung
  - [ Infiltration Cellular TGLs = 4 - 6+7 ]
- \* Mammary Gland
  - [ Fibroadenoma TGLs = 1,2 - 18+19 ]
- \* Nose
- \* Ovary
  - [ Cyst TGLs = 3- 15 ]
- \* Spleen
- \* Stomach, Forestomach
  - [ Hyperplasia TGLs = 5 - 20 ]
- \* Thymus
- \* Uterus
- Degeneration
- Hypercellularity
- Clear Cell Focus
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Atrophy
- Hyperplasia
- Squamous Metaplasia
- Cystic, Minimal
- Mild
- Histiocyte, Mild
- Multiple
- Moderate
- Mild
- Mild
- Mild
- Atypical, Marked
- Mild
- Cystic, Minimal
- Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Kidney
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- \* Vagina

OBSERVATIONS

- \* Bone Marrow
  - Hypercellularity
  - Moderate
- \* Liver
  - Clear Cell Focus
  - Mixed Cell Focus
  - Pigment
  - Minimal
  - Infiltration Cellular
  - Histiocyte, Moderate
- \* Lung
  - [ Infiltration Cellular TGLs = 5 - 6+7 ]
- \* Mammary Gland
  - Hyperplasia
  - Minimal
- \* Nose
  - Olfactory Epi
  - Accumulation, Hyaline Droplet
  - Moderate
- \* Ovary
  - Cyst
  - Hyperplasia
  - Moderate
  - Hyperplasia
  - Mild
  - Inflammation
  - Chronic, Mild
- \* Spleen
  - [ Cyst TGLs = 2 - 15 ]
  - [ Hyperplasia TGLs = 1-15 ]
  - Extramedullary Hematopoiesis
  - Mild
- \* Thymus
  - Atrophy
  - Moderate
- \* Uterus
  - Adenomyosis
  - Mild
  - Hemorrhage
  - Mild
  - Endometrium
  - Hyperplasia
  - Cystic, Mild
  - Endometrium
  - Squamous Metaplasia
  - Mild
- [ Hemorrhage TGLs = 3 - 17 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 328

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 300 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300873

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 4 - 17 ]

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Trachea                | * Urinary Bladder          |
| Vagina                    |                             |                          |                            |

OBSERVATIONS

- |                 |  |                               |                       |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow   |  | Hypercellularity              | Marked                |
| * Kidney        |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver         |  | Clear Cell Focus              |                       |
|                 |  | Extramedullary Hematopoiesis  | Minimal               |
|                 | Bile Duct                                | Hyperplasia                   | Minimal               |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                 | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Mammary Gland |  | Fibroadenoma                  |                       |
|                 | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                       |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                |
| * Ovary         | Bilateral                                | Atrophy                       | Moderate              |
| * Spleen        |  | Extramedullary Hematopoiesis  | Moderate              |
|                 |  | Pigment                       | Minimal               |
| * Thymus        |  | Atrophy                       | Moderate              |
| * Thyroid Gland | C Cell                                   | Hyperplasia                   | Minimal               |
| * Uterus        | Endometrium                              | Hyperplasia                   | Cystic, Mild          |
|                 | Endometrium                              | Polyp Stromal                 |                       |
|                 |  | Squamous Metaplasia           | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | Blood Vessel             | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 | * Pituitary Gland         |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Trachea                   | * Urinary Bladder        | * Uterus                   | Vagina                    |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                                |               |                               |                       |
|--------------------------------|---------------|-------------------------------|-----------------------|
| * Adrenal Cortex               |               | Degeneration                  | Cystic, Minimal       |
| * Bone Marrow                  |               | Hypercellularity              | Minimal               |
| * Kidney                       |               | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                        |               | Clear Cell Focus              |                       |
| * Lung                         |               | Infiltration Cellular         | Histiocyte, Minimal   |
| Lymph Node                     | Renal         | Sarcoma                       |                       |
| [ Sarcoma TGLs = 2 - 20 ]      |               |                               |                       |
| * Mammary Gland                |               | Fibroadenoma                  |                       |
| [ Fibroadenoma TGLs = 1 - 19 ] |               |                               |                       |
| * Nose                         | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary                        | Bilateral     | Atrophy                       | Mild                  |
| * Spleen                       |               | Extramedullary Hematopoiesis  | Mild                  |
|                                |               | Pigment                       | Mild                  |
| * Thymus                       |               | Atrophy                       | Mild                  |
| * Thyroid Gland                | C Cell        | Hyperplasia                   | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pituitary Gland
- [ Adenoma TGLs = 4 - 11 ]
- \* Spleen
- \* Thyroid Gland
- \* Uterus
- [ Dilation TGLs = 2 - 16+17+19 ]
- [ Schwannoma Malignant TGLs = 1 - 18 ]
- Accessory Adrenal Cortical Nodule
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Pigment
- Infiltration Cellular
- Hyperplasia
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Adenoma
- Hyperplasia
- Dilation
- Schwannoma Malignant
- Squamous Metaplasia
- Marked
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Minimal
- Moderate
- Moderate
- Moderate
- Moderate
- Minimal
- Marked
- Marked

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 334

TRT#: 4

SEX: Female

DAY ON TEST: 396

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Ovary                   |
| * Pancreas                  | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           | Vagina                   |                            |                           |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |               |                              |                               |                       |
|---------------|------------------------------|-------------------------------|-----------------------|
| * Bone        |                              | Inflammation                  | Chronic, Mild         |
|               |                              | Necrosis                      | Minimal               |
|               | [ Necrosis TGLs = 1 - 19 ]   |                               |                       |
| * Bone Marrow |                              | Hypercellularity              | Marked                |
| * Kidney      |                              | Nephropathy                   | Chronicprogr, Minimal |
| * Liver       |                              | Extramedullary Hematopoiesis  | Minimal               |
| * Lung        |                              | Infiltration Cellular         | Histiocyte, Mild      |
| * Nose        | Olfactory Epi                | Accumulation, Hyaline Droplet | Moderate              |
| * Spleen      |                              | Extramedullary Hematopoiesis  | Moderate              |
| * Thymus      |                              | Atrophy                       | Mild                  |
| * Uterus      |                              | Hemorrhage                    | Moderate              |
|               |                              | Thrombus                      | Moderate              |
|               | [ Hemorrhage TGLs = 2 - 18 ] |                               |                       |

PRIMARY CAUSE OF DEATH - Uterus Hemorrhage

\* PROTOCOL REQUIRED TISSUE







Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Glandular
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Intestine Large, Rectum
- \* Kidney
- [ Calculus Micro Observation Only TGLs = 5-23 ]
- [ Cyst TGLs = 6 - 23 ]
- [ Infarct TGLs = 3 - 23 ]
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 8 - 6+7 ]
- \* Mammary Gland
- [ Adenocarcinoma TGLs = 4 - 20 ]
- [ Fibroadenoma TGLs = 1,2 - 18+19 ]
- \* Nose
- \* Ovary
- Hepatocyte
- Thrombus
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Calculus Micro Observation Only
- Cyst
- Infarct
- Nephropathy
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Adenocarcinoma
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Inflammation
- Atrophy
- Moderate
- Mild
- Minimal
- Marked
- Chronicprogr, Moderate
- Minimal
- Minimal
- Histiocyte, Moderate
- Multiple
- Moderate
- Chronic Active, Minimal
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300882

ORGAN AND ACCOUNTABLE SITE STATUS

	Follicle	Cyst	
[ Cyst TGLs = 7 - 15 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 9 - 21 ]			
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLs = 10 - 22 ]			
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Squamous Metaplasia	Minimal

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 288

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| Nerve Trigeminal            | * Ovary                  | * Pancreas                 | * Parathyroid Gland       |
| Peripheral Nerve            | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        | * Uterus                   | Vagina                    |

OBSERVATIONS

- |  |                |                               |                       |
|--|----------------|-------------------------------|-----------------------|
| * Bone Marrow  |                | Hypercellularity              | Moderate              |
| * Brain  | Medulla        | Demyelination                 | Minimal               |
| * Kidney   |                | Nephropathy                   | Chronicprogr, Minimal |
| * Lung   |                | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose   | Respirat Epith | Accumulation, Hyaline Droplet | Minimal               |
|  | Olfactory Epi  | Accumulation, Hyaline Droplet | Mild                  |
| Spinal Cord  | Axon           | Degeneration                  | Mild                  |
|  |                | Demyelination                 | Minimal               |
|  | Nerve          | Gliosis                       | Moderate              |
|  | Nerve          | Schwannoma Malignant          |                       |
| Note: This schwannoma appears to arise from satellite cells in/near a dorsal root ganglion (present in section 20I). |                |                               |                       |
| * Spleen   |                | Pigment                       | Minimal               |

PRIMARY CAUSE OF DEATH

- Spinal Cord Nerve Schwannoma Malignant

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 339

TRT#: 4

SEX: Female

DAY ON TEST: 497

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lymph Node, Mesenteric | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           | * Uterus                 | Vagina                     |

INSUFFICIENT TISSUE

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                 |                                |                               |                         |
|-----------------|--------------------------------|-------------------------------|-------------------------|
| * Bone Marrow   |                                | Hypercellularity              | Marked                  |
| * Liver         |                                | Necrosis                      | Moderate                |
| * Lung          |                                | Infiltration Cellular         | Histiocyte, Minimal     |
|                 |                                | Inflammation                  | Chronic Active, Minimal |
| * Mammary Gland |                                | Fibroadenoma                  |                         |
|                 | [ Fibroadenoma TGLs = 1 - 18 ] | Hyperplasia                   | Minimal                 |
| * Nose          | Respirat Epith                 | Accumulation, Hyaline Droplet | Mild                    |
|                 | Olfactory Epi                  | Accumulation, Hyaline Droplet | Marked                  |
| * Spleen        |                                | Extramedullary Hematopoiesis  | Moderate                |
| * Thymus        |                                | Atrophy                       | Moderate                |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 713

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Stomach, Glandular
- Blood Vessel
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Thyroid Gland
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Trachea
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Brain
- \* Intestine Large, Colon
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- [ Leukemia Mononuclear TGLs = 1 - 18 ]
- \* Stomach, Forestomach
- \* Thymus
- \* Uterus
- Vagina
- Leukemia Mononuclear
- Hypercellularity
- Hemorrhage
- Leukemia Mononuclear
- Parasite Metazoan
- Leukemia Mononuclear
- Leukemia Mononuclear
- Infiltration Cellular
- Leukemia Mononuclear
- Accumulation, Hyaline Droplet
- Atrophy
- Atrophy
- Hyperplasia
- Hemorrhage
- Leukemia Mononuclear
- Inflammation
- Atrophy
- Hyperplasia
- Inflammation
- Necrosis
- Moderate
- Mild
- Histiocyte, Mild
- Moderate
- Moderate
- Mild
- Minimal
- Mild
- Acute, Minimal
- Moderate
- Cystic, Minimal
- Chronic Active, Mild
- Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Medulla           | Blood Vessel             | * Bone                     | * Bone Marrow            |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                    |
| * Harderian Gland           | * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 | * Pituitary Gland        |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular     |
| * Trachea                   | * Urinary Bladder        | * Uterus                   | Vagina                   |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                           |  |                               |                         |
|---------------------------|--|-------------------------------|-------------------------|
| * Adrenal Cortex          |  | Degeneration                  | Cystic, Minimal         |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                         |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver                   |  | Clear Cell Focus              |                         |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild        |
|                           |  | Inflammation                  | Granulomatous, Minimal  |
|                           | [ Infiltration Cellular TGLs = 4 - 6+7 ] |                               |                         |
| Lymph Node                | Axillary                                 | Hemorrhage                    | Mild                    |
|                           | [ Hemorrhage TGLs = 3 - 20 ]             |                               |                         |
| * Mammary Gland           |  | Fibroadenoma                  | Multiple                |
|                           |  | Hyperplasia                   | Mild                    |
|                           | [ Fibroadenoma TGLs = 1,2 - 18+19 ]      |                               |                         |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                    |
|                           |  | Inflammation                  | Chronic Active, Minimal |
| * Ovary                   | Follicle                                 | Cyst                          |                         |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                    |
|                           |  | Pigment                       | Minimal                 |
| * Thymus                  |  | Atrophy                       | Moderate                |
| * Thyroid Gland           | C Cell                                   | Adenoma                       |                         |
|                           | C Cell                                   | Hyperplasia                   | Minimal                 |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Pancreas                  | * Parathyroid Gland      | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           | Vagina                   |                            |

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Eye             | Retina                                   | Degeneration                  | Minimal                |
| * Liver           |  | Clear Cell Focus              |                        |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate   |
|                   |  | Inflammation                  | Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                        |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate               |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                   |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal                |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                   |
|                   |  | Pigment                       | Mild                   |
| * Thymus          |  | Atrophy                       | Mild                   |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Mild           |
|                   | Endometrium                              | Squamous Metaplasia           | Mild                   |

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                          |                            |                          |
|---------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla        | Blood Vessel               | * Bone                   |
| * Brain                   | * Clitoral Gland         | * Esophagus                | * Eye                    |
| * Harderian Gland         | * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Liver                   | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland          |
| * Pancreas                | * Salivary Glands        | * Skin                     | * Stomach, Forestomach   |
| * Stomach, Glandular      | * Trachea                | * Urinary Bladder          | Vagina                   |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                             |  |                               |                         |
|-----------------------------|--|-------------------------------|-------------------------|
| * Bone Marrow               |  | Hypercellularity              | Moderate                |
| * Intestine Small, Duodenum |  | Inflammation                  | Chronic Active, Mild    |
|                             | [ Inflammation TGLs = 4 - 19 ]           |                               |                         |
| * Kidney                    |  | Nephropathy                   | Chronicprogr, Mild      |
| * Lung                      |  | Infiltration Cellular         | Histiocyte, Moderate    |
|                             | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                         |
| * Nose                      | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                    |
|                             |  | Inflammation                  | Chronic Active, Minimal |
| * Ovary                     | Bilateral                                | Atrophy                       | Moderate                |
| * Pituitary Gland           | Pars Distalis                            | Adenoma                       |                         |
|                             | [ Adenoma TGLs = 3 - 11 ]                |                               |                         |
| * Spleen                    |  | Extramedullary Hematopoiesis  | Mild                    |
|                             |  | Pigment                       | Mild                    |
| * Thymus                    |  | Atrophy                       | Mild                    |
| * Thyroid Gland             | C Cell                                   | Carcinoma                     |                         |
|                             | [ Carcinoma TGLs = 1 - 18 ]              |                               |                         |
| * Uterus                    | Endometrium                              | Hyperplasia                   | Cystic, Minimal         |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                   | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                    | * Harderian Gland           |
| * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mandibular    |
| * Parathyroid Gland      | * Salivary Glands          | * Skin                   | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Trachea                  | * Urinary Bladder        | Vagina                      |

OBSERVATIONS

- |                           |                      |                       |
|---------------------------|----------------------|-----------------------|
| * Adrenal Cortex          | Degeneration         | Cystic, Mild          |
| * Bone Marrow             | Hypercellularity     | Moderate              |
| * Intestine Large, Rectum | Polyarteritis Nodosa | Moderate              |
| * Kidney                  | Infarct              | Minimal               |
|                           | Nephropathy          | Chronicprogr, Minimal |
|                           | Sarcoma              |                       |

Note: Renal mesenchymal tumor resembling hemagiopericytoma in some areas.

[ Sarcoma TGLs = 1 - 18 ]

- |                          |  |                               |                     |
|--------------------------|--|-------------------------------|---------------------|
| * Liver                  | Bile Duct                                | Basophilic Focus              |                     |
|                          | Bile Duct                                | Cyst                          |                     |
|                          |  | Hyperplasia                   | Minimal             |
|                          | [ Cyst TGLs = 5 - 12 ]                   |                               |                     |
| * Lung                   |  | Infiltration Cellular         | Histiocyte, Minimal |
|                          |  | Sarcoma                       | Metastatic (Kidney) |
|                          | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                     |
| * Lymph Node, Mesenteric |  | Infiltration Cellular         | Plasma Cell, Mild   |
|                          | [ Infiltration Cellular TGLs = 4 - 9 ]   |                               |                     |
| * Mammary Gland          |  | Hyperplasia                   | Atypical, Minimal   |
| * Nose                   | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                |
| * Ovary                  | Bilateral                                | Atrophy                       | Moderate            |
|                          | Paraovarian                              | Sarcoma                       | Metastatic (Kidney) |
|                          | [ Sarcoma TGLs = 2 - 15 ]                |                               |                     |
| * Pancreas               |  | Polyarteritis Nodosa          | Mild                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 344

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 300 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300889

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pituitary Gland	Pars Distalis	Sarcoma	Metastatic (Kidney)
Skeletal Muscle		Hyperplasia	Minimal
* Spleen		Sarcoma	Metastatic (Kidney)
		Extramedullary Hematopoiesis	Moderate
		Pigment	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
		Polyarteritis Nodosa	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Forestomach
- Vagina
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Glandular

OBSERVATIONS

- \* Adrenal Cortex [ Hemorrhage TGLs = 3 - 11 ] Hemorrhage Marked
- \* Bone Marrow Hypercellularity Moderate
- \* Kidney Nephropathy Chronicprogr, Minimal
- \* Liver Clear Cell Focus Pigment Minimal
- \* Lung Infiltration Cellular Inflammation Histiocyte, Moderate Granulomatous, Minimal [ Infiltration Cellular TGLs = 4 - 6+7 ]
- \* Mammary Gland [ Fibroadenoma TGLs = 1 - 18 ] Fibroadenoma
- \* Nose Olfactory Epi Accumulation, Hyaline Droplet Mild
- \* Ovary Bilateral Atrophy Mild
- \* Pituitary Gland Pars Distalis Hyperplasia Marked
- \* Spleen Pigment Mild
- \* Thymus Atrophy Minimal
- \* Thyroid Gland C Cell Adenoma
- \* Uterus C Cell Hyperplasia Moderate
- Endometrium Adenoma
- Endometrium Squamous Cell Carcinoma
- Endometrium Squamous Metaplasia Marked

Note: Both an endometrial adenoma (B16) and squamous cell carcinoma (B17) seem responsible for the observed TGL-2.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 345

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 300 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300890

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenoma TGLs = 2 - 16 ]

[ Squamous Cell Carcinoma TGLs = 2 - 17 ]

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Pancreas
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Blood Vessel
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Kidney
  - Nephropathy
  - Chronicprogr, Minimal
- \* Liver
  - Basophilic Focus
  - Clear Cell Focus
- \* Lung
  - [ Infiltration Cellular TGLs = 3 - 6+7 ]
  - Infiltration Cellular
  - Histiocyte, Mild
- \* Mammary Gland
  - [ Fibroadenoma TGLs = 1 - 18 ]
  - Fibroadenoma
  - Hyperplasia
  - Marked
- \* Nose
  - Olfactory Epi
  - Accumulation, Hyaline Droplet
  - Marked
- \* Ovary
  - Bilateral
  - Atrophy
  - Moderate
- \* Pituitary Gland
  - [ Adenoma TGLs = 4 - 11 ]
  - Pars Distalis
  - Adenoma
- \* Spleen
  - Extramedullary Hematopoiesis
  - Mild
  - Pigment
  - Mild
- \* Thymus
  - Atrophy
  - Mild
- \* Thyroid Gland
  - C Cell
  - Hyperplasia
  - Marked
- \* Uterus
  - Endometrium
  - Hyperplasia
  - Atypical, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 696

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Ovary                    |
| * Pancreas                | * Pituitary Gland           | * Salivary Glands        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    | Vagina                   |                            |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                 |                                |                               |                       |
|-----------------|--------------------------------|-------------------------------|-----------------------|
| * Bone Marrow   |                                | Hypercellularity              | Marked                |
| * Kidney        |                                | Nephropathy                   | Chronicprogr, Minimal |
| * Liver         |                                | Necrosis                      | Mild                  |
| * Lung          |                                | Infiltration Cellular         | Histiocyte, Moderate  |
| * Mammary Gland |                                | Fibroadenoma                  |                       |
|                 | [ Fibroadenoma TGLs = 1 - 18 ] | Hyperplasia                   | Mild                  |
| * Nose          | Olfactory Epi                  | Accumulation, Hyaline Droplet | Moderate              |
| * Spleen        | White Pulp                     | Atrophy                       | Moderate              |
|                 |                                | Extramedullary Hematopoiesis  | Moderate              |
| * Thymus        |                                | Atrophy                       | Moderate              |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
Vagina			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
		Hyperplasia	Tubular, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Squamous Metaplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 526

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Liver                  | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | Vagina                     |

OBSERVATIONS

- |                 |  |                               |                      |
|-----------------|--|-------------------------------|----------------------|
| * Bone Marrow   |  | Hypercellularity              | Moderate             |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Moderate |
|                 | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                      |
| Lymph Node      | Lumbar                                   | Hemorrhage                    | Mild                 |
|                 | [ Hemorrhage TGLs = 3 - 19 ]             |                               |                      |
| * Mammary Gland |  | Fibroadenoma                  |                      |
|                 | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                      |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                 |
| * Ovary         | Bilateral                                | Atrophy                       | Mild                 |
|                 |  | Granulosa Cell Tumor Benign   |                      |
| * Spleen        |  | Extramedullary Hematopoiesis  | Mild                 |
|                 |  | Pigment                       | Mild                 |
| * Thymus        |  | Atrophy                       | Mild                 |
| * Uterus        | Endometrium                              | Hyperplasia                   | Cystic, Minimal      |
|                 |  | Polyp Stromal                 |                      |
|                 | Endometrium                              | Squamous Metaplasia           | Mild                 |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Harderian Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Skin
- \* Stomach, Forestomach
- \* Trachea
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Glandular
- \* Uterus
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Salivary Glands
- \* Thyroid Gland
- Vagina

OBSERVATIONS

- \* Clitoral Gland
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- Carcinoma
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Hepatodiaphragmatic Nodule
- Hyperplasia
- Bile Duct
- [ Hepatodiaphragmatic Nodule TGLs = 1 - 18 ]
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- Olfactory Epi
- Bilateral
- Pars Distalis
- Hyperplasia
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Marked
- Mild
- Mild
- Marked
- Mild
- Mild
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 351

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                   |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                    |
| * Harderian Gland           | * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Ovary                    | * Pancreas               |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular     |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | * Uterus                 |
| Vagina                      |                          |                            |                          |

MISSING

- |                     |          |
|---------------------|----------|
| * Parathyroid Gland | * Thymus |
|---------------------|----------|

OBSERVATIONS

- |                           |  |                               |                        |
|---------------------------|--|-------------------------------|------------------------|
| * Bone Marrow             |  | Hypercellularity              | Moderate               |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                        |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver                   |  | Extramedullary Hematopoiesis  | Minimal                |
|                           | Bile Duct                                | Hyperplasia                   | Minimal                |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild       |
|                           |  | Inflammation                  | Granulomatous, Minimal |
|                           | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                        |
| * Mammary Gland           |  | Fibroadenoma                  |                        |
|                           |  | Hyperplasia                   | Mild                   |
|                           | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                        |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate               |
| * Pituitary Gland         | Pars Distalis                            | Adenoma                       |                        |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Moderate               |
|                           |  | Pigment                       | Minimal                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 352

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow: Hypercellularity, Moderate
- \* Intestine Large, Rectum: Parasite Metazoan
- \* Kidney: Nephropathy, Chronicprogr, Minimal
- \* Liver: Bile Duct, Hyperplasia, Minimal
- \* Lung: Infiltration Cellular, TGLs = 1 - 6+7, Infiltration Cellular, Infiltration Cellular, Histiocyte, Moderate
- \* Nose: Olfactory Epi, Accumulation, Hyaline Droplet, Mild
- \* Ovary: Bilateral, Atrophy, Moderate
- \* Pancreas: Acinus, Atrophy, Minimal
- \* Parathyroid Gland: Hyperplasia, Mild
- \* Pituitary Gland: Pars Distalis, Hyperplasia, Mild
- \* Spleen: Extramedullary Hematopoiesis, Pigment, Mild
- \* Thymus: Atrophy, Minimal
- \* Uterus: Endometrium, Atrophy, Mild
- Endometrium: Hyperplasia, Cystic, Mild
- Squamous Metaplasia, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 353

TRT#: 6

SEX: Female

DAY ON TEST: 648

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300898

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
Vagina			

**OBSERVATIONS**

* Adrenal Cortex		Extramedullary Hematopoiesis	Minimal
* Bone Marrow		Hypercellularity	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Marked
* Urinary Bladder		Inflammation	Acute, Minimal
* Uterus	Endometrium	Adenocarcinoma	
	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 354

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                   |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                    |
| * Harderian Gland           | * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Ovary                    | * Pancreas               |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                   |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            | * Trachea                |
| * Urinary Bladder           | * Uterus                 | Vagina                     |                          |

OBSERVATIONS

- |                           |  |                               |                       |
|---------------------------|--|-------------------------------|-----------------------|
| * Bone Marrow             |  | Hypercellularity              | Minimal               |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                       |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                   | Bile Duct                                | Hyperplasia                   | Mild                  |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild      |
|                           | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                       |
| * Mammary Gland           |  | Hyperplasia                   | Mild                  |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                  |
|                           |  | Pigment                       | Mild                  |
| * Thymus                  |  | Atrophy                       | Minimal               |

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 355

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           | Vagina                   |                            |

OBSERVATIONS

- |  |               |                               |                  |
|--|---------------|-------------------------------|------------------|
| * Bone Marrow                                  |               | Hypercellularity              | Minimal          |
| * Kidney                                       |               | Infarct                       | Minimal          |
| * Liver  |               | Clear Cell Focus              |                  |
|  |               | Pigment                       | Minimal          |
| * Lung   |               | Infiltration Cellular         | Histiocyte, Mild |
| Note: Lung has pituitary gland floater in B07. |               |                               |                  |
| [ Infiltration Cellular TGLs = 2 - 6+7 ]       |               |                               |                  |
| * Mammary Gland                                |               | Fibroadenoma                  |                  |
| [ Fibroadenoma TGLs = 1 - 19 ]                 |               |                               |                  |
| * Nose   | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate         |
| * Spleen                                       |               | Extramedullary Hematopoiesis  | Mild             |
|  |               | Pigment                       | Minimal          |
| * Thymus                                       |               | Atrophy                       | Moderate         |
| * Uterus                                       | Endometrium   | Hyperplasia                   | Cystic, Minimal  |



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 356

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Vagina
- \* Blood Vessel
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder

OBSERVATIONS

- \* Islets, Pancreatic
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1,2 - 19+20 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- [ Adenoma TGLs = 4 - 11 ]
- \* Spleen
- \* Thymus
- \* Uterus
- Endometrium
- Endometrium
- Hyperplasia
- Infarct
- Nephropathy
- Pigment
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Polyp Stromal
- Squamous Metaplasia
- Moderate
- Minimal
- Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Mild
- Multiple
- Minimal
- Marked
- Minimal
- Moderate
- Minimal
- Minimal
- Minimal
- Cystic, Minimal
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 357

TRT#: 6

SEX: Female

DAY ON TEST: 590

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Brain
- \* Clitoral Gland
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Liver
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Thyroid Gland
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder

MISSING

- \* Pituitary Gland

OBSERVATIONS

- \* Bone Marrow
- \* Islets, Pancreatic
- \* Kidney
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Ovary
- Peritoneum
- \* Spleen
- \* Thymus
- \* Uterus
- Endometrium
- Endometrium
- Hypercellularity
- Hyperplasia
- Nephropathy
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Inflammation
- Squamous Metaplasia
- Marked
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Moderate
- Moderate
- Chronic, Moderate
- Moderate
- Mild
- Marked
- Cystic, Minimal
- Acute, Mild
- Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 358

TRT#: 6

SEX: Female

DAY ON TEST: 284

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Ovary                   | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  | Vagina                      |                          |                            |

OBSERVATIONS

- |                 |   |                               |                     |
|-----------------|---|-------------------------------|---------------------|
| * Bone Marrow   |   | Hypercellularity              | Marked              |
| * Liver         |   | Extramedullary Hematopoiesis  | Minimal             |
| * Lung          |   | Infiltration Cellular         | Histiocyte, Minimal |
| * Mammary Gland |   | Adenocarcinoma                |                     |
|                 |   | Hyperplasia                   | Minimal             |
|                 | [ Adenocarcinoma TGLs = 1 - 18 ]              |                               |                     |
| * Nose          | Respirat Epith                                | Accumulation, Hyaline Droplet | Minimal             |
|                 | Olfactory Epi                                 | Accumulation, Hyaline Droplet | Moderate            |
| * Spleen        |   | Extramedullary Hematopoiesis  | Moderate            |
|                 | [ Extramedullary Hematopoiesis TGLs = 2 - 8 ] |                               |                     |

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 359

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | Blood Vessel             | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 | * Parathyroid Gland       |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Trachea                   | * Urinary Bladder        | Vagina                     |                           |

OBSERVATIONS

- |                   |  |                               |                         |
|-------------------|--|-------------------------------|-------------------------|
| * Adrenal Cortex  |  | Angiectasis                   | Mild                    |
| * Bone Marrow     |  | Hypercellularity              | Moderate                |
| * Kidney          |  | Infarct                       | Minimal                 |
|                   |  | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver           |  | Hepatocellular Adenoma        |                         |
|                   | [ Hepatocellular Adenoma TGLs = 2 - 18 ] | Pigment                       | Minimal                 |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate    |
|                   | [ Infiltration Cellular TGLs = 5 - 6+7 ] |                               |                         |
| * Mammary Gland   |  | Fibroadenoma                  |                         |
|                   | [ Fibroadenoma TGLs = 1 - 19 ]           |                               |                         |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                 |
|                   |  | Inflammation                  | Chronic Active, Minimal |
| * Ovary           | Bilateral                                | Atrophy                       | Moderate                |
|                   | Paraovarian                              | Cyst                          |                         |
|                   | [ Cyst TGLs = 3 - 15 ]                   |                               |                         |
| * Pituitary Gland |  | Angiectasis                   | Minimal                 |
|                   | [ Angiectasis TGLs = 6 - 20 ]            |                               |                         |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                    |
| * Thymus          |  | Atrophy                       | Mild                    |
| * Thyroid Gland   | C Cell                                   | Hyperplasia                   | Minimal                 |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Mild            |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 359

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300904

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 4 - 16 ]

Endometrium

Squamous Metaplasia

Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 360

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Skin
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- Bile Duct
- Hepatocyte
- Bile Duct
- [ Cyst TGLs = 4 - 20 ]
- [ Hepatodiaphragmatic Nodule TGLs = 2 - 18 ]
- [ Mixed Cell Focus TGLs = 3 - 19 ]
- \* Lung
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- Pheochromocytoma Benign
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cyst
- Cytoplasmic Alteration
- Hepatodiaphragmatic Nodule
- Hyperplasia
- Mixed Cell Focus
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Moderate
- Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Granulomatous, Minimal
- Mild
- Moderate
- Mild
- Minimal
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 360

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300905

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

\* Uterus

Cyst

Squamous

Endometrium

Hyperplasia

Cystic, Minimal

Endometrium

Squamous Metaplasia

Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea

OBSERVATIONS

- \* Bone Marrow
- \* Kidney
- \* Lung
  - [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
  - [ Fibroadenoma TGLs = 1,2 - 19+20 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Uterus
- Hypercellularity
- Nephropathy
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Squamous Metaplasia
- Minimal
- Chronicprogr, Moderate
- Histiocyte, Mild
- Multiple
- Moderate
- Mild
- Mild
- Mild
- Mild
- Minimal
- Cystic, Mild
- Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  | Vagina                      |                          |                            |

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Heart           |  | Cardiomyopathy                | Minimal               |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |  | Clear Cell Focus              |                       |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild      |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Mammary Gland   |  | Fibroadenoma                  |                       |
|                   | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                       |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary           | Follicle                                 | Cyst                          |                       |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal               |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                  |
|                   |  | Pigment                       | Mild                  |
| * Thymus          |  | Atrophy                       | Mild                  |

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Ovary
- \* Pancreas
- \* Parathyroid Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder
- \* Uterus
- Vagina

OBSERVATIONS

- \* Bone Marrow: Hypercellularity (Minimal)
- \* Kidney: Nephropathy (Chronicprogr, Minimal)
- \* Liver: Clear Cell Focus, Eosinophilic Focus, Hepatocellular Adenoma
- \* Lung: [ Hepatocellular Adenoma TGLs = 1 - 18 ], Infiltration Cellular (Histiocyte, Mild)
- \* Nose: [ Infiltration Cellular TGLs = 2 - -6+7 ], Respirat Epith, Olfactory Epi, Pars Distalis (Accumulation, Hyaline Droplet (Minimal), Accumulation, Hyaline Droplet (Moderate), Adenoma)
- \* Pituitary Gland: [ Adenoma TGLs = 3 - 11 ]
- \* Spleen: Extramedullary Hematopoiesis (Mild), Pigment (Mild)
- \* Thymus: Atrophy (Mild)
- \* Thyroid Gland: C Cell (Hyperplasia (Moderate))

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| Vagina                    |                             |                          |                            |

OBSERVATIONS

- |                   |  |                               |                         |
|-------------------|--|-------------------------------|-------------------------|
| * Bone Marrow     |  | Hypercellularity              | Mild                    |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver           |  | Clear Cell Focus              |                         |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild        |
|                   |  | Inflammation                  | Chronic Active, Minimal |
|                   | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                         |
| * Mammary Gland   |  | Fibroadenoma                  | Multiple                |
|                   | [ Fibroadenoma TGLs = 1,2 - 18+19 ]      |                               |                         |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                    |
| * Ovary           | Bilateral                                | Atrophy                       | Moderate                |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal                 |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                    |
|                   |  | Pigment                       | Mild                    |
| * Thymus          |  | Atrophy                       | Minimal                 |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Minimal         |
|                   |  | Inflammation                  | Acute, Minimal          |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 365

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Skin
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose
- \* Ovary
- \* Spleen
- \* Stomach, Forestomach
- [ Squamous Cell Carcinoma TGLs = 1 - 18 ]
- \* Thymus
- \* Uterus
- Papilla
- Hepatocyte
- Respirat Epith
- Olfactory Epi
- Bilateral
- Endometrium
- Squamous Cell Carcinoma
- Hypercellularity
- Edema
- Infarct
- Nephropathy
- Squamous Cell Carcinoma
- Hypertrophy
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Squamous Cell Carcinoma
- Atrophy
- Hyperplasia
- Metastatic (Stomach, Forestomach)
- Marked
- Minimal
- Minimal
- Chronicprogr, Mild
- Metastatic (Stomach, Forestomach)
- Mild
- Histiocyte, Moderate
- Granulomatous, Minimal
- Minimal
- Moderate
- Moderate
- Mild
- Minimal
- Minimal
- Marked
- Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 366

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * Bone                    | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                | * Parathyroid Gland         |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Trachea                | * Urinary Bladder          | Vagina                    |                             |

OBSERVATIONS

- |                           |                  |                               |                        |
|---------------------------|------------------|-------------------------------|------------------------|
| * Adrenal Medulla         | Bilateral        | Pheochromocytoma Benign       |                        |
| [ Pheochromocytoma Benign | TGLs = 2 - 11 ]  |                               |                        |
| * Bone Marrow             |                  | Hypercellularity              | Moderate               |
| * Heart                   |                  | Cardiomyopathy                | Minimal                |
| * Kidney                  |                  | Nephropathy                   | Chronicprogr, Mild     |
| * Liver                   | Bile Duct        | Dilation                      | Moderate               |
|                           | Bile Duct        | Eosinophilic Focus            |                        |
| [ Dilation                | TGLs = 1 - 18 ]  | Hyperplasia                   | Mild                   |
|                           |                  | Pigment                       | Mild                   |
| * Lung                    |                  | Infiltration Cellular         | Histiocyte, Mild       |
| [ Infiltration Cellular   | TGLs = 3 - 6+7 ] | Inflammation                  | Granulomatous, Minimal |
| * Nose                    | Olfactory Epi    | Accumulation, Hyaline Droplet | Moderate               |
| * Ovary                   | Bilateral        | Atrophy                       | Mild                   |
| * Pituitary Gland         | Pars Distalis    | Hyperplasia                   | Mild                   |
| * Spleen                  |                  | Extramedullary Hematopoiesis  | Mild                   |
|                           |                  | Pigment                       | Mild                   |
| * Thymus                  |                  | Atrophy                       | Mild                   |
| * Thyroid Gland           | C Cell           | Hyperplasia                   | Minimal                |
| * Uterus                  | Endometrium      | Hyperplasia                   | Cystic, Minimal        |
|                           | Cervix           | Hyperplasia                   | Squamous, Moderate     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 366

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 1000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300911

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Endometrium

Squamous Metaplasia

Mild

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 367

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow: Hypercellularity, Mild
- \* Kidney: Infarct, Minimal; Nephropathy, Chronicprogr, Minimal
- \* Liver: Clear Cell Focus; Hepatocellular Adenoma, Multiple; Bile Duct, Hyperplasia, Minimal; [ Hepatocellular Adenoma TGLs = 1,2 - 12+18 ]
- \* Lung: Infiltration Cellular, Histiocyte, Moderate; [ Infiltration Cellular TGLs = 4 - 6+7 ]
- \* Mammary Gland: Fibroadenoma, [ Fibroadenoma TGLs = 5 - 19 ]
- \* Nose: Olfactory Epi, Accumulation, Hyaline Droplet, Moderate
- \* Ovary: Bilateral, Atrophy, Mild; Follicle, Cyst
- [ Cyst TGLs = 3 - 15 ]
- \* Spleen: Extramedullary Hematopoiesis, Mild; Pigment, Mild
- \* Thymus: Atrophy, Mild
- \* Uterus: Endometrium, Hyperplasia, Cystic, Minimal; Endometrium, Squamous Metaplasia, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 368

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                   |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                    |
| * Harderian Gland           | * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland          |
| * Pancreas                  | * Parathyroid Gland      | * Salivary Glands          | * Skin                   |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder        |
| Vagina                      |                          |                            |                          |

OBSERVATIONS

- |                           |  |                               |                       |
|---------------------------|--|-------------------------------|-----------------------|
| * Bone Marrow             |  | Hypercellularity              | Moderate              |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                       |
| * Kidney                  | Renal Tubule                             | Cyst                          |                       |
|                           |  | Nephropathy                   | Chronicprogr, Minimal |
|                           | [ Cyst TGLs = 1 - 8 ]                    |                               |                       |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild      |
|                           | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary                   | Bilateral                                | Atrophy                       | Mild                  |
| Peripheral Nerve          | Trigeminal                               | Schwannoma Malignant          |                       |
| * Pituitary Gland         | Pars Distalis                            | Hyperplasia                   | Mild                  |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                  |
|                           |  | Pigment                       | Minimal               |
| * Thymus                  |  | Atrophy                       | Mild                  |
| * Thyroid Gland           | C Cell                                   | Adenoma                       |                       |
| * Uterus                  | Endometrium                              | Hyperplasia                   | Cystic, Minimal       |
|                           | Endometrium                              | Squamous Metaplasia           | Minimal               |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 369

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Skin
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Pancreas
- \* Stomach, Forestomach
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Islets, Pancreatic
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
- [ Adenocarcinoma TGLs = 1 - 19 ]
- [ Fibroadenoma TGLs = 2 - 20 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Stomach, Glandular
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Degeneration
- Hypercellularity
- Hyperplasia
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Adenocarcinoma
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Atrophy
- Hyperplasia
- Hyperplasia
- Squamous Metaplasia
- Cystic, Minimal
- Marked
- Mild
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Marked
- Moderate
- Mild
- Minimal
- Minimal
- Mild
- Mild
- Cystic, Mild
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 370

TRT#: 6

SEX: Female

DAY ON TEST: 344

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Uterus
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland
- Vagina
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Skin
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Spleen
- \* Thymus
- Hepatocyte
- Olfactory Epi
- Follicle
- Extramedullary Hematopoiesis
- TGLs = 3 - 19
- TGLs = 1 - 18
- TGLs = 2 - 8
- Necrosis
- Hypercellularity
- Infarct
- Nephropathy
- Hypertrophy
- Adenocarcinoma
- Adenocarcinoma
- Accumulation, Hyaline Droplet
- Inflammation
- Cyst
- Extramedullary Hematopoiesis
- Atrophy
- Minimal
- Marked
- Mild
- Chronicprogr, Minimal
- Mild
- Metastatic (Mammary Gland)
- Minimal
- Chronic Active, Minimal
- Marked
- Marked

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow: Hypercellularity, Mild
- \* Kidney: Nephropathy, Chronicprogr, Minimal
- \* Liver: Clear Cell Focus
- \* Lung: Infiltration Cellular, Histiocyte, Mild  
           [ Infiltration Cellular   TGLs = 1 - 6+7 ]
- \* Nose: Olfactory Epi, Accumulation, Hyaline Droplet, Mild
- \* Ovary: Bilateral, Atrophy, Mild
- \* Spleen: Extramedullary Hematopoiesis, Mild  
           Pigment, Minimal  
           Atrophy, Minimal
- \* Thymus: Atrophy, Minimal
- \* Thyroid Gland: C Cell, Adenoma
- \* Uterus: Endometrium, Hyperplasia, Cystic, Minimal  
           Inflammation, Acute, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 372

TRT#: 6

SEX: Female

DAY ON TEST: 500

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Necrosis	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Infiltration Cellular	Plasma Cell, Marked
	[ Infiltration Cellular TGLs = 2 - 19 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
* Spleen		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                   | * Bone Marrow               |
| * Brain                  | * Clitoral Gland           | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Ovary                    | * Pancreas               | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Trachea                | * Urinary Bladder          | * Uterus                 | Vagina                      |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                              |               |                               |                            |
|------------------------------|---------------|-------------------------------|----------------------------|
| * Adrenal Cortex             |               | Degeneration                  | Cystic, Minimal            |
| * Heart                      | Endocardium   | Hyperplasia                   | Mild                       |
| * Intestine Large, Rectum    |               | Parasite Metazoan             |                            |
| * Kidney                     |               | Nephropathy                   | Chronicprogr, Mild         |
| * Liver                      |               | Clear Cell Focus              |                            |
| * Lung                       |               | Carcinoma                     | Metastatic (Thyroid Gland) |
|                              |               | Infiltration Cellular         | Histiocyte, Moderate       |
| [ Carcinoma TGLs = 3 - 6+7 ] |               |                               |                            |
| Lymph Node                   | Deep Cervical | Carcinoma                     | Metastatic (Thyroid Gland) |
| [ Carcinoma TGLs = 1 - 18 ]  |               |                               |                            |
| * Mammary Gland              |               | Hyperplasia                   | Mild                       |
| * Nose                       | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate                   |
| * Spleen                     |               | Extramedullary Hematopoiesis  | Mild                       |
|                              |               | Pigment                       | Mild                       |
| * Thymus                     |               | Atrophy                       | Mild                       |
| * Thyroid Gland              | C Cell        | Carcinoma                     |                            |
| [ Carcinoma TGLs = 2 - 11 ]  |               |                               |                            |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 496

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300919

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Brain                  | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Liver                  | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Nose                      |
| * Ovary                  | * Pancreas                 | * Pituitary Gland         | * Salivary Glands           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          | * Uterus                  | Vagina                      |

MISSING

- |                  |                     |          |
|------------------|---------------------|----------|
| * Clitoral Gland | * Parathyroid Gland | * Thymus |
|------------------|---------------------|----------|

OBSERVATIONS

- |   |                                 |                            |
|---|---------------------------------|----------------------------|
| * Bone Marrow                                     | Hypercellularity                | Marked                     |
| * Heart   | Cardiomyopathy                  | Minimal                    |
| * Lung  | Adenocarcinoma                  | Metastatic (Mammary Gland) |
|   | Cystic Keratinizing Epithelioma |                            |
|   | Infiltration Cellular           | Histiocyte, Moderate       |
|   | Thrombus                        | Mild                       |
| [ Adenocarcinoma TGLs = 3,4,5,6 - 7+20+21+22+23 ] |                                 |                            |
| * Mammary Gland                                   | Adenocarcinoma                  | Multiple                   |
| Note: TGL-1 also present in B14.                  |                                 |                            |
| [ Adenocarcinoma TGLs = 1,2 - 18+19 ]             |                                 |                            |
| * Spleen  | White Pulp                      | Atrophy                    |
|   |                                 | Marked                     |
|   |                                 | Pigment                    |
|   |                                 | Minimal                    |

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 375

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300920

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	Vagina	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Islets, Pancreatic		Hyperplasia	Marked
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[ Infiltration Cellular TGLs = 4 - 6 ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Follicle	Cyst	
	[ Cyst TGLs = 3 - 15 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 533

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | Blood Vessel             | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Salivary Glands        | * Skin                     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | Vagina                    |

OBSERVATIONS

- |                        |  |                               |                       |
|------------------------|--|-------------------------------|-----------------------|
| * Adrenal Medulla      |  | Pheochromocytoma Benign       |                       |
|                        | [ Pheochromocytoma Benign TGLs = 4 - 11 ]    |                               |                       |
| * Bone Marrow          |  | Hypercellularity              | Marked                |
| * Kidney               |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                |  | Hepatodiaphragmatic Nodule    |                       |
|                        | [ Hepatodiaphragmatic Nodule TGLs = 3 - 20 ] |                               |                       |
| * Lung                 |  | Infiltration Cellular         | Histiocyte, Minimal   |
|                        | [ Infiltration Cellular TGLs = 5 - 6+7 ]     |                               |                       |
| * Mammary Gland        |  | Fibroadenoma                  | Multiple              |
|                        | [ Fibroadenoma TGLs = 1,2 - 18+19 ]          |                               |                       |
| * Nose                 | Olfactory Epi                                | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary                | Bilateral                                    | Atrophy                       | Mild                  |
| * Spleen               |  | Extramedullary Hematopoiesis  | Mild                  |
|                        |  | Pigment                       | Minimal               |
| * Stomach, Forestomach | Epithelium                                   | Hyperplasia                   | Minimal               |
|                        |  | Inflammation                  | Chronic Active, Mild  |
|                        |  | Ulcer                         | Minimal               |
| * Thymus               |  | Atrophy                       | Mild                  |
| * Uterus               |  | Hemorrhage                    | Mild                  |
|                        | Endometrium                                  | Hyperplasia                   | Cystic, Mild          |
|                        | Endometrium                                  | Squamous Metaplasia           | Minimal               |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 640

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Ovary                    | * Parathyroid Gland       |
| * Pituitary Gland           | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |
| * Uterus                    | Vagina                   |                            |                           |

OBSERVATIONS

- |                 |  |                               |                      |
|-----------------|--|-------------------------------|----------------------|
| * Eye           | Retina                                   | Degeneration                  | Mild                 |
| * Heart         | Endocardium                              | Schwannoma Malignant          |                      |
| * Kidney        |  | Nephropathy                   | Chronicprogr, Mild   |
| * Liver         |  | Clear Cell Focus              |                      |
|                 | Bile Duct                                | Hyperplasia                   | Minimal              |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Moderate |
|                 | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                      |
| * Mammary Gland |  | Hyperplasia                   | Mild                 |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate             |
| * Pancreas      | Acinus                                   | Atrophy                       | Minimal              |
| * Spleen        |  | Extramedullary Hematopoiesis  | Mild                 |
|                 |  | Pigment                       | Mild                 |
| * Thymus        |  | Atrophy                       | Moderate             |

PRIMARY CAUSE OF DEATH

- Heart Endocardium Schwannoma Malignant

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 379

TRT#: 6

SEX: Female

DAY ON TEST: 701

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	Vagina

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Moderate
* Brain		Gliosis	Moderate
* Harderian Gland		Atrophy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 651

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder
- Vagina

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Bone Marrow Hypercellularity Moderate
- \* Islets, Pancreatic Adenoma
- Note: TGL-3 is also in B09.
- [ Adenoma TGLs = 3 - 19 ]
- \* Kidney Nephropathy Chronicprogr, Minimal
- \* Liver Hepatocyte Cytoplasmic Alteration Minimal
- Hepatocyte Eosinophilic Focus
- Hepatocyte Hypertrophy Minimal
- Pigment Minimal
- \* Lung Infiltration Cellular Histiocyte, Moderate
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Mammary Gland Fibroadenoma
- [ Fibroadenoma TGLs = 4 - 20 ]
- \* Nose Respirat Epith Accumulation, Hyaline Droplet Minimal
- Olfactory Epi Accumulation, Hyaline Droplet Moderate
- \* Ovary Bilateral Atrophy Mild
- \* Pancreas Acinus Atrophy Mild
- \* Pituitary Gland Pars Distalis Adenoma
- [ Adenoma TGLs = 2 - 18 ]
- \* Spleen Extramedullary Hematopoiesis Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 380

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 651

**DOSE:** 1000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300925

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Thymus		Pigment	Mild
* Thyroid Gland	Bilateral, C Cell	Atrophy	Moderate
* Uterus	Endometrium	Adenoma	
		Hyperplasia	Cystic, Minimal

---

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 382

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Ovary                    | * Pancreas                |
| * Pituitary Gland           | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Trachea                  | * Urinary Bladder         |
| * Uterus                    | Vagina                   |                            |                           |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                 |  |                               |                       |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow   |  | Hypercellularity              | Minimal               |
| * Heart         |  | Cardiomyopathy                | Minimal               |
| * Kidney        |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver         |  | Clear Cell Focus              |                       |
|                 | Bile Duct                                | Hyperplasia                   | Minimal               |
|                 |  | Pigment                       | Minimal               |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Mild      |
|                 | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                       |
| * Mammary Gland |  | Adenoma                       | Multiple              |
|                 |  | Hyperplasia                   | Moderate              |
|                 | [ Adenoma TGLs = 1,2 - 19+20 ]           |                               |                       |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                |
| * Spleen        |  | Extramedullary Hematopoiesis  | Mild                  |
|                 |  | Pigment                       | Minimal               |
| * Thyroid Gland | C Cell                                   | Adenoma                       |                       |
|                 | C Cell                                   | Hyperplasia                   | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 383

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus	Vagina	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Marked
* Kidney	Epithelium, Papilla	Hyperplasia	Minimal
		Nephropathy	Chronicprogr, Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[ Fibroadenoma TGLs = 1,2 - 18+19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Marked
* Spleen		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 384

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Trachea
- Blood Vessel
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Ovary
- \* Skin
- \* Uterus
- \* Bone Marrow
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Forestomach
- Vagina

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- [ Hepatodiaphragmatic Nodule TGLs = 2 - 19 ]
- \* Lung
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Spleen
- \* Stomach, Glandular
- \* Thymus
- \* Thyroid Gland
- Hyperplasia
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Hepatodiaphragmatic Nodule
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Atrophy
- Adenoma
- Hyperplasia
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Minimal
- Minimal
- Moderate
- Mild
- Mild
- Minimal
- Mild
- Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 385

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Trachea
- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Skin
- \* Urinary Bladder
- Blood Vessel
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Forestomach
- Vagina
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular

OBSERVATIONS

- \* Bone Marrow
- \* Clitoral Gland
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Bile Duct
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- Olfactory Epi
- Bilateral
- Pars Distalis
- Bilateral, C Cell
- Endometrium
- Hypercellularity
- Squamous Cell Carcinoma
- Parasite Metazoan
- Nephropathy
- Basophilic Focus
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Inflammation
- Squamous Metaplasia
- Moderate
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Moderate
- Moderate
- Mild
- Minimal
- Mild
- Minimal
- Acute, Moderate
- Marked

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 388

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- Vagina
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Intestine Large, Cecum
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Mammary Gland
- [ Galactocele TGLs = 2 - 18 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- [ Adenoma TGLs = 3 - 11 ]
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Angiectasis
- Hypercellularity
- Polyarteritis Nodosa
- Polyarteritis Nodosa
- Nephropathy
- Pigment
- Infiltration Cellular
- Inflammation
- Galactocele
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Polyarteritis Nodosa
- Mineral
- Atrophy
- Adenoma
- Hyperplasia
- Squamous Metaplasia
- Minimal
- Mild
- Minimal
- Minimal
- Minimal
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Moderate
- Granulomatous, Minimal
- Moderate
- Mild
- Mild
- Minimal
- Minimal
- Mild
- Cystic, Minimal
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 389

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow
  - \* Kidney
  - [ Cyst TGLs = 1 - 8 ]
  - \* Liver
  - \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
  - \* Nose
  - \* Ovary
  - \* Pituitary Gland
  - \* Spleen
  - \* Thymus
  - \* Thyroid Gland
  - \* Uterus
- |  |                |                               |                       |
|--|----------------|-------------------------------|-----------------------|
|  |                | Hypercellularity              | Moderate              |
|  | Renal Tubule   | Cyst                          |                       |
|  |                | Nephropathy                   | Chronicprogr, Minimal |
|  | Hepatocyte     | Cytoplasmic Alteration        | Minimal               |
|  |                | Pigment                       | Minimal               |
|  |                | Infiltration Cellular         | Histiocyte, Mild      |
|  | Respirat Epith | Accumulation, Hyaline Droplet | Minimal               |
|  | Olfactory Epi  | Accumulation, Hyaline Droplet | Moderate              |
|  | Bilateral      | Atrophy                       | Mild                  |
|  | Pars Distalis  | Hyperplasia                   | Minimal               |
|  |                | Extramedullary Hematopoiesis  | Minimal               |
|  |                | Pigment                       | Mild                  |
|  |                | Atrophy                       | Mild                  |
|  | C Cell         | Hyperplasia                   | Minimal               |
|  | Endometrium    | Hyperplasia                   | Cystic, Mild          |
|  | Endometrium    | Squamous Metaplasia           | Moderate              |

\* PROTOCOL REQUIRED TISSUE







Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 392

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300937

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus
Vagina			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
[ Pheochromocytoma Benign TGLs = 3 - 11 ]			
* Bone Marrow		Hypercellularity	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
[ Infiltration Cellular TGLs = 4 -6+7 ]		Inflammation	Granulomatous, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[ Fibroadenoma TGLs = 1,2 - 18+19 ]		Hyperplasia	Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Spleen		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 393

TRT#: 6

SEX: Female

DAY ON TEST: 701

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Salivary Glands
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Glandular
- Vagina
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
  - Degeneration
  - Necrosis
  - Cystic, Minimal
- \* Bone Marrow
  - Hypercellularity
  - Moderate
- \* Kidney
  - Nephropathy
  - Marked
- \* Lung
  - Infiltration Cellular
  - TGLs = 4 - 6+7
  - Chronicprogr, Minimal
- Lymph Node
  - Lumbar
  - Infiltration Cellular
  - TGLs = 7- 21
  - Histiocyte, Mild
- \* Lymph Node, Mandibular
  - Infiltration Cellular
  - TGLs = 6 - 20
  - Plasma Cell, Mild
- \* Mammary Gland
  - Note: TGL-1 was also visible in B14.
  - Fibroadenoma
  - TGLs = 1 - 18
  - Fibroadenoma
- \* Nose
  - Olfactory Epi
  - Accumulation, Hyaline Droplet
  - Moderate
- \* Ovary
  - Bilateral
  - Atrophy
  - Moderate
- \* Pituitary Gland
  - Pars Distalis
  - Hyperplasia
  - Mild
- \* Skin
  - Inflammation
  - Ulcer
  - Chronic Active, Marked
  - Moderate
- [ Ulcer TGLs = 3 - 19 ]
- \* Spleen
  - Extramedullary Hematopoiesis
  - Moderate
- \* Thymus
  - Atrophy
  - TGLs = 5- 6
  - Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 393

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 701

**DOSE:** 1000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300938

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

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PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 394

TRT#: 6

SEX: Female

DAY ON TEST: 557

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Thyroid Gland
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pancreas
- \* Skin
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Stomach, Glandular
- Vagina

MISSING

- \* Intestine Large, Cecum
- \* Intestine Small, Ileum

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose
- \* Ovary
- \* Spleen
  - [ Leukemia Mononuclear TGLs = 1 - 18 ]
- \* Thymus
- \* Uterus
- Leukemia Mononuclear
- Hypercellularity
- Leukemia Mononuclear
- Leukemia Mononuclear
- Necrosis
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Leukemia Mononuclear
- Atrophy
- Leukemia Mononuclear
- Hyperplasia
- Squamous Metaplasia
- Moderate
- Mild
- Histiocyte, Moderate
- Moderate
- Mild
- Mild
- Cystic, Mild
- Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 395

TRT#: 6

SEX: Female

DAY ON TEST: 546

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | Vagina                     |

OBSERVATIONS

- |               |               |                               |                       |
|---------------|---------------|-------------------------------|-----------------------|
| * Bone Marrow |               | Hypercellularity              | Moderate              |
| * Kidney      |               | Nephropathy                   | Chronicprogr, Minimal |
| * Lung        |               | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose        | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal               |
| * Ovary       | Bilateral     | Atrophy                       | Moderate              |
| * Spleen      | White Pulp    | Atrophy                       | Moderate              |
|               |               | Extramedullary Hematopoiesis  | Minimal               |
|               |               | Pigment                       | Moderate              |
| * Thymus      |               | Atrophy                       | Mild                  |
| * Uterus      |               | Dilation                      | Moderate              |
|               |               | Inflammation                  | Acute, Mild           |

[ Dilation TGLs = 1 - 16+17 ]

PRIMARY CAUSE OF DEATH

- Uterus Inflammation

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 396

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | Blood Vessel                | * Bone                   | * Bone Marrow              |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| Vagina                    |                             |                          |                            |

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Adrenal Cortex  |  | Degeneration                  | Cystic, Minimal        |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver           | Bile Duct                                | Hyperplasia                   | Minimal                |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate   |
|                   |  | Inflammation                  | Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                        |
| * Mammary Gland   |  | Fibroadenoma                  |                        |
|                   | [ Fibroadenoma TGLs = 2 - 18 ]           |                               |                        |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate               |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                   |
| * Pituitary Gland | Pars Distalis                            | Adenoma                       |                        |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                   |
|                   |  | Pigment                       | Mild                   |
| * Thymus          |  | Atrophy                       | Mild                   |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Minimal        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 397

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Epithelium, Papilla	Hyperplasia	Minimal
		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Pigment	Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	Note: TGL-1 is also in B14.		
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 2 - 11 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 397

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300942

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 398

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Pancreas
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Urinary Bladder
- Vagina
- Blood Vessel
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Thyroid Gland
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea

OBSERVATIONS

- \* Kidney Nephropathy Chronicprogr, Minimal
- \* Liver Hepatocellular Adenoma
- Bile Duct Hyperplasia Minimal
- [ Hepatocellular Adenoma TGLs = 4 - 19 ]
- \* Lung Infiltration Cellular Histiocyte, Mild
- \* Mammary Gland Adenocarcinoma
- [ Adenocarcinoma TGLs = 1 - 18 ]
- \* Nose Olfactory Epi Accumulation, Hyaline Droplet Moderate
- \* Ovary Bilateral Atrophy Moderate
- Bursa Cyst
- [ Cyst TGLs = 2 - 15 ]
- \* Pituitary Gland Pars Distalis Adenoma
- [ Adenoma TGLs = 5 - 11 ]
- \* Spleen Pigment Mild
- \* Thymus Atrophy Mild
- Cyst
- \* Uterus Endometrium Hyperplasia Cystic, Mild
- Endometrium Squamous Metaplasia Minimal
- [ Hyperplasia TGLs = 3 - 16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 399

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	Vagina

MISSING

- \* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration Mineral	Cystic, Minimal Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain			
Note: Floater of pituitary gland adenoma is present in brain (B04).			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Basophilic Focus Hepatocellular Adenoma Pigment	Minimal
[ Hepatocellular Adenoma TGLs = 1 - 18 ]			
* Lung		Infiltration Cellular	Histiocyte, Moderate
[ Infiltration Cellular TGLs = 2 - 6+7 ]			
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Marked
* Ovary	Bilateral	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 3 - 19 ]			
* Spleen		Extramedullary Hematopoiesis Pigment	Mild Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 399

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 1000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300944

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus		Atrophy	Minimal
* Thyroid Gland		Inflammation	Acute, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Squamous Metaplasia	Minimal

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 401

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  | Vagina                      |                          |                            |

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Bone Marrow     |  | Hypercellularity              | Mild                   |
| * Kidney          |  | Infarct                       | Minimal                |
|                   |  | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver           | Bile Duct                                | Hyperplasia                   | Minimal                |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate   |
|                   |  | Inflammation                  | Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                        |
| * Mammary Gland   |  | Fibroadenoma                  |                        |
|                   |  | Hyperplasia                   | Marked                 |
|                   | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                        |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate               |
| * Ovary           | Follicle                                 | Cyst                          |                        |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal                |
| * Spleen          |  | Extramedullary Hematopoiesis  | Moderate               |
|                   |  | Pigment                       | Minimal                |
| * Thymus          |  | Atrophy                       | Marked                 |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 402

TRT#: 8

SEX: Female

DAY ON TEST: 629

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300947

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Urinary Bladder
- \* Uterus
- Vagina

MISSING

- \* Esophagus
- \* Heart
- \* Lung
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Thymus
- \* Thyroid Gland
- \* Trachea

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Moderate
- \* Intestine Large, Colon
- Polyarteritis Nodosa
- Mild
- \* Kidney
- Infarct
- Minimal
- Nephropathy
- Chronicprogr, Mild
- \* Liver
- Bile Duct
- Hyperplasia
- Minimal
- \* Mammary Gland
- Fibroadenoma
- Hyperplasia
- Minimal
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Minimal
- \* Spleen
- White Pulp
- Atrophy
- Mild
- Extramedullary Hematopoiesis
- Minimal
- Pigment
- Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 403

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Skin
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Glandular
- Vagina
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
  - \* Bone Marrow
  - \* Heart
  - \* Intestine Large, Rectum
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Mammary Gland
  - \* Nose
  - \* Ovary
  - \* Spleen
  - \* Thymus
  - \* Uterus
  - Degeneration
  - Hypercellularity
  - Cardiomyopathy
  - Parasite Metazoan
  - Nephropathy
  - Cytoplasmic Alteration
  - Extramedullary Hematopoiesis
  - Hypertrophy
  - Pigment
  - Infiltration Cellular
  - Fibroadenoma
  - Hyperplasia
  - Accumulation, Hyaline Droplet
  - Cyst
  - Extramedullary Hematopoiesis
  - Atrophy
  - Adenocarcinoma
  - Cystic, Minimal
  - Marked
  - Minimal
  - Chronicprogr, Minimal
  - Minimal
  - Minimal
  - Mild
  - Mild
  - Histiocyte, Marked
  - Mild
  - Moderate
  - Mild
  - Mild
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- [ Fibroadenoma TGLs = 1 - 18 ]
- [ Adenocarcinoma TGLs = 2 - 16+17+19 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 404

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Pituitary Gland
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus	Vagina		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Thyroid Gland
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OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Heart	Atrium	Thrombus	Moderate
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver	Hepatocyte	Cytoplasmic Alteration	Mild
		Necrosis	Mild
		Pigment	Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 6 - 6+7 ]		
Lymph Node	Mediastinal	Hemorrhage	Moderate
	[ Hemorrhage TGLs = 5 - 21 ]		
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLs = 1,2,3 - 18+19+20 ]		
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
		Ulcer	Minimal
* Thymus		Atrophy	Marked

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 404

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 3000 ppm Female

**DISP:** Natural Death

**HISTO:** 1300949

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH - Heart Atrium Thrombus

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 405

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 | * Parathyroid Gland       |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | Vagina                    |

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow     |  | Hypercellularity              | Moderate              |
| * Heart           |  | Cardiomyopathy                | Minimal               |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           | Hepatocyte                                     | Cytoplasmic Alteration        | Mild                  |
|                   |  | Degeneration                  | Cystic, Minimal       |
|                   | Bile Duct                                      | Hepatocellular Adenoma        |                       |
|                   |  | Hyperplasia                   | Minimal               |
|                   |  | Pigment                       | Mild                  |
|                   | [ Hepatocellular Adenoma TGLs = 3 - 18 ]       |                               |                       |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild      |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ]       |                               |                       |
| * Mammary Gland   |  | Hyperplasia                   | Minimal               |
| * Nose            | Olfactory Epi                                  | Accumulation, Hyaline Droplet | Moderate              |
|                   | Turbinate                                      | Chondroma                     |                       |
|                   | Note: Osseous metaplasia present within tumor. |                               |                       |
| * Ovary           | Bilateral                                      | Atrophy                       | Mild                  |
|                   | Follicle                                       | Cyst                          |                       |
| * Pituitary Gland | Pars Distalis                                  | Hyperplasia                   | Mild                  |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                  |
|                   |  | Pigment                       | Minimal               |
| * Thymus          |  | Atrophy                       | Mild                  |
| * Uterus          |  | Hemorrhage                    | Moderate              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 405

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300950

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Endometrium

Hyperplasia

Cystic, Mild

Inflammation

Acute, Moderate

Endometrium

Squamous Metaplasia

Mild

[ Hemorrhage TGLs = 1 - 16+17 ]

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 406

TRT#: 8

SEX: Female

DAY ON TEST: 545

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

MISSING

- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Moderate
- \* Kidney
- Nephropathy
- Chronicprogr, Minimal
- \* Liver
- Hepatocyte
- Cytoplasmic Alteration
- Mild
- Pigment
- Minimal
- \* Lung
- Infiltration Cellular
- Histiocyte, Marked
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Minimal
- \* Ovary
- Bilateral
- Atrophy
- Mild
- \* Pancreas
- Acinus
- Adenoma
- Basophilic Focus
- \* Pituitary Gland
- Pars Distalis
- Hyperplasia
- Minimal
- \* Spleen
- White Pulp
- Atrophy
- Mild
- Extramedullary Hematopoiesis
- Mild
- Pigment
- Mild
- \* Thymus
- Atrophy
- Mild
- \* Uterus
- Inflammation
- Acute, Mild
- Endometrium
- Squamous Metaplasia
- Minimal

PRIMARY CAUSE OF DEATH - Lung Infiltration Cellular

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 407

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300952

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Ovary
- \* Pancreas
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- \* Uterus
- Vagina

OBSERVATIONS

- \* Bone Marrow      Hypercellularity      Minimal
- \* Kidney      Nephropathy      Chronicprogr, Mild
- \* Liver      Clear Cell Focus
- Hepatocyte      Cytoplasmic Alteration      Minimal
- Eosinophilic Focus
- Pigment      Minimal
- [ Eosinophilic Focus    TGLs = 1,3 - 18+19 ]
- \* Lung      Infiltration Cellular      Histiocyte, Moderate
- [ Infiltration Cellular    TGLs = 2 - 6+7 ]
- \* Nose      Olfactory Epi      Accumulation, Hyaline Droplet      Moderate
- \* Parathyroid Gland      Adenoma
- \* Pituitary Gland      Pars Distalis      Adenoma
- \* Spleen      Extramedullary Hematopoiesis      Mild
- Pigment      Mild
- \* Thymus      Atrophy      Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 408

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Skin
- \* Uterus
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Stomach, Glandular
- Vagina
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Kidney
- \* Salivary Glands
- \* Urinary Bladder

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Liver
- \* Lung
- Lymph Node
- [ Hyperplasia TGLs = 3 - 21 ]
- \* Mammary Gland
- [ Adenoma TGLs = 1 - 19 ]
- \* Nose
- \* Ovary
- [ Cyst TGLs = 2 - 20 ]
- \* Pituitary Gland
- [ Hyperplasia TGLs = 4 - 22 ]
- \* Spleen
- \* Stomach, Forestomach
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Hyperplasia
- Adenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Inflammation
- Cystic, Minimal
- Moderate
- Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Lymphocyte, Mild
- Mild
- Mild
- Mild
- Moderate
- Moderate
- Minimal
- Mild
- Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 408

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300953

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 5 - 23 ]

\* Thymus

Atrophy

Moderate

\* Thyroid Gland

C Cell

Adenoma

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 409

TRT#: 8

SEX: Female

DAY ON TEST: 707

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Uterus
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland
- Vagina
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Skin
- \* Trachea

OBSERVATIONS

- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Ovary
- [ Cyst TGLs = 2 - 15 ]
- \* Spleen
- \* Thymus
- Hypercellularity
- Nephropathy
- Extramedullary Hematopoiesis
- Necrosis
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Extramedullary Hematopoiesis
- Atrophy
- Marked
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Minimal
- Mild
- Marked
- Moderate
- Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 410

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300955

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Bone Marrow		Hypercellularity	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Epithelium, Papilla	Hyperplasia	Minimal
		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Moderate
	Hepatocyte	Hypertrophy	Moderate
		Pigment	Moderate
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Marked
* Ovary	Bilateral	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Squamous Metaplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 411

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 172

**DOSE:** 3000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300956

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                          |                            |                          |
|---------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla        | Blood Vessel               | * Bone                   |
| * Brain                   | * Clitoral Gland         | * Esophagus                | * Eye                    |
| * Harderian Gland         | * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Liver                   | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland          |
| * Nose                    | * Ovary                  | * Pancreas                 | * Pituitary Gland        |
| * Salivary Glands         | * Skin                   | * Stomach, Forestomach     | * Thymus                 |
| * Thyroid Gland           | * Trachea                | * Urinary Bladder          | * Uterus                 |
| Vagina                    |                          |                            |                          |

**MISSING**

- |                             |                     |
|-----------------------------|---------------------|
| * Intestine Small, Duodenum | * Parathyroid Gland |
|-----------------------------|---------------------|

**OBSERVATIONS**

- |                      |                       |                       |
|----------------------|-----------------------|-----------------------|
| * Bone Marrow        | Hypercellularity      | Minimal               |
| * Kidney             | Nephropathy           | Chronicprogr, Minimal |
| * Lung               | Infiltration Cellular | Histiocyte, Minimal   |
| * Spleen             | Pigment               | Mild                  |
| * Stomach, Glandular | Mineral               | Mild                  |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 414

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | Blood Vessel             | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Parathyroid Gland       |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Trachea                   | Vagina                   |                            |                           |

MISSING

- \* Urinary Bladder

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex  |  | Degeneration                  | Cystic, Minimal       |
| * Bone Marrow     |  | Hypercellularity              | Mild                  |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           | Hepatocyte                               | Cytoplasmic Alteration        | Minimal               |
|                   | Bile Duct                                | Hyperplasia                   | Minimal               |
|                   |  | Pigment                       | Minimal               |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                       |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                  |
| * Pancreas        | Acinus                                   | Atrophy                       | Minimal               |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal               |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                  |
|                   |  | Pigment                       | Mild                  |
| * Thymus          |  | Atrophy                       | Mild                  |
| * Thyroid Gland   | C Cell                                   | Hyperplasia                   | Minimal               |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Minimal       |
|                   | Endometrium                              | Squamous Metaplasia           | Minimal               |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 416

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel             | * Bone                      |
| * Brain                  | * Clitoral Gland           | * Esophagus              | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Pancreas                 | * Parathyroid Gland      | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder        | Vagina                      |

OBSERVATIONS

- |                           |  |                               |                       |
|---------------------------|--|-------------------------------|-----------------------|
| * Bone Marrow             |  | Hypercellularity              | Moderate              |
| * Heart                   |  | Cardiomyopathy                | Minimal               |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                       |
| * Kidney                  | Epithelium, Papilla                      | Hyperplasia                   | Mild                  |
|                           |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                   | Hepatocyte                               | Cytoplasmic Alteration        | Mild                  |
|                           | Bile Duct                                | Dilation                      | Marked                |
|                           | Bile Duct                                | Hyperplasia                   | Minimal               |
|                           |  | Pigment                       | Moderate              |
|                           | [ Dilation TGLs = 1 - 18 ]               |                               |                       |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                           | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Mammary Gland           |  | Hyperplasia                   | Minimal               |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary                   | Bilateral                                | Atrophy                       | Mild                  |
|                           | Follicle                                 | Cyst                          |                       |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                  |
|                           |  | Pigment                       | Mild                  |
| * Thymus                  |  | Atrophy                       | Minimal               |
| * Uterus                  | Endometrium                              | Hyperplasia                   | Cystic, Mild          |
|                           | Endometrium                              | Squamous Metaplasia           | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 417

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 | * Parathyroid Gland       |
| * Salivary Glands           | * Skin                   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        | * Uterus                   | Vagina                    |

OBSERVATIONS

- |                        |  |                               |                         |
|------------------------|--|-------------------------------|-------------------------|
| * Bone Marrow          |  | Hypercellularity              | Marked                  |
| * Eye                  | Choroid                                  | Hyperplasia                   | Minimal                 |
| * Kidney               |  | Infarct                       | Minimal                 |
|                        |  | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver                | Hepatocyte                               | Cytoplasmic Alteration        | Minimal                 |
|                        |  | Pigment                       | Minimal                 |
| * Lung                 |  | Infiltration Cellular         | Histiocyte, Mild        |
|                        | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                         |
| * Mammary Gland        |  | Adenocarcinoma                |                         |
|                        | [ Adenocarcinoma TGLs = 1 - 18 ]         |                               |                         |
| * Nose                 | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                  |
| * Ovary                | Bilateral                                | Atrophy                       | Moderate                |
| * Pituitary Gland      | Pars Distalis                            | Hyperplasia                   | Moderate                |
| * Spleen               | White Pulp                               | Atrophy                       | Minimal                 |
|                        |  | Extramedullary Hematopoiesis  | Moderate                |
|                        |  | Pigment                       | Minimal                 |
| * Stomach, Forestomach |  | Inflammation                  | Chronic Active, Minimal |
| * Thymus               |  | Atrophy                       | Moderate                |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 418

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Thymus
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Islets, Pancreatic
- \* Salivary Glands
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Skin
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Stomach, Forestomach
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Stomach, Glandular
- \* Uterus
- Hepatocyte
- Hepatocyte
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- [ Fibroadenoma TGLs = 2 - 19 ]
- Olfactory Epi
- Bilateral
- Acinus
- Pars Distalis
- Endometrium
- Endometrium
- Degeneration
- Hypercellularity
- Parasite Metazoan
- Parasite Metazoan
- Nephropathy
- Cytoplasmic Alteration
- Hypertrophy
- Pigment
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Inflammation
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Hyperplasia
- Squamous Metaplasia
- Cystic, Mild
- Mild
- Chronicprogr, Minimal
- Mild
- Mild
- Minimal
- Histiocyte, Mild
- Mild
- Mild
- Mild
- Mild
- Acute, Minimal
- Mild
- Mild
- Mild
- Minimal
- Minimal
- Cystic, Minimal
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 419

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Thyroid Gland
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Ovary
- \* Skin
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Glandular
- \* Uterus

MISSING

- \* Pituitary Gland

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Spleen
- [ Hemorrhage TGLs = 2 - 19 ]
- [ Leukemia Mononuclear TGLs = 1 - 18 ]
- \* Thymus
- Leukemia Mononuclear
- Hypercellularity
- Infarct
- Nephropathy
- Cytoplasmic Alteration
- Leukemia Mononuclear
- Infiltration Cellular
- Leukemia Mononuclear
- Hyperplasia
- Accumulation, Hyaline Droplet
- Hemorrhage
- Leukemia Mononuclear
- Atrophy
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Minimal
- Marked
- Marked
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 420

TRT#: 8

SEX: Female

DAY ON TEST: 359

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300965

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

**OBSERVATIONS**

* Bone Marrow		Hypercellularity	Marked
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Pigment	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

**ANIMAL ID:** 421

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 592

**DOSE:** 3000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300966

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                            |                          |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel               | * Bone                   |
| * Brain                   | * Clitoral Gland            | * Esophagus                | * Eye                    |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Kidney                  | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Pancreas               |
| * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands          | * Skin                   |
| * Stomach, Forestomach    | * Thyroid Gland             | * Trachea                  | * Urinary Bladder        |
| * Uterus                  | Vagina                      |                            |                          |

**MISSING**

- \* Intestine Small, Ileum

**OBSERVATIONS**

- |                      |  |                               |                         |
|----------------------|--|-------------------------------|-------------------------|
| * Bone Marrow        |  | Hypercellularity              | Marked                  |
| * Liver              | Hepatocyte                               | Hypertrophy                   | Minimal                 |
| * Lung               |  | Infiltration Cellular         | Histiocyte, Moderate    |
|                      | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                         |
| * Mammary Gland      |  | Fibroadenoma                  |                         |
|                      | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                         |
| * Nose               | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                  |
|                      |  | Inflammation                  | Chronic Active, Minimal |
| * Ovary              | Bilateral                                | Atrophy                       | Minimal                 |
|                      | Follicle                                 | Cyst                          |                         |
| * Spleen             |  | Extramedullary Hematopoiesis  | Mild                    |
|                      |  | Pigment                       | Minimal                 |
| * Stomach, Glandular |  | Mineral                       | Minimal                 |
| * Thymus             |  | Atrophy                       | Minimal                 |

**PRIMARY CAUSE OF DEATH** - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 422

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| Vagina                    |                             |                          |                            |

OBSERVATIONS

- |                   |  |                               |                         |
|-------------------|--|-------------------------------|-------------------------|
| * Bone Marrow     |  | Hypercellularity              | Moderate                |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver           | Hepatocyte                               | Cytoplasmic Alteration        | Minimal                 |
|                   | Bile Duct                                | Hyperplasia                   | Minimal                 |
|                   |  | Pigment                       | Mild                    |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate    |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                         |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                    |
|                   |  | Inflammation                  | Chronic Active, Minimal |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                    |
| * Pancreas        | Acinus                                   | Adenoma                       |                         |
|                   | [ Adenoma TGLs = 1 - 18 ]                |                               |                         |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Mild                    |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                    |
|                   |  | Pigment                       | Mild                    |
| * Thymus          |  | Atrophy                       | Minimal                 |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Minimal         |
|                   | Endometrium                              | Squamous Metaplasia           | Minimal                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 423

TRT#: 8

SEX: Female

DAY ON TEST: 721

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland         | * Esophagus                 | * Eye                    | * Harderian Gland          |
| * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Parathyroid Gland        |
| * Salivary Glands        | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland          | * Trachea                   | Vagina                   |                            |

OBSERVATIONS

- |                           |                     |                               |                    |
|---------------------------|---------------------|-------------------------------|--------------------|
| Blood Vessel              |                     | Aneurysm                      | Mild               |
|                           |                     | Thrombus                      | Moderate           |
| * Bone Marrow             |                     | Hypercellularity              | Moderate           |
| * Heart                   |                     | Cardiomyopathy                | Minimal            |
| * Intestine Large, Colon  |                     | Parasite Metazoan             |                    |
|                           |                     | Polyarteritis Nodosa          | Mild               |
| * Intestine Large, Rectum |                     | Polyarteritis Nodosa          | Minimal            |
| * Kidney                  |                     | Nephropathy                   | Chronicprogr, Mild |
|                           |                     | Polyarteritis Nodosa          | Minimal            |
| * Liver                   | Hepatocyte          | Cytoplasmic Alteration        | Moderate           |
|                           | Hepatocyte          | Hypertrophy                   | Mild               |
|                           |                     | Pigment                       | Mild               |
| * Lung                    |                     | Infiltration Cellular         | Histiocyte, Mild   |
| * Mammary Gland           |                     | Hyperplasia                   | Minimal            |
| Mesentery                 |                     | Polyarteritis Nodosa          | Mild               |
|                           | Artery              | Thrombus                      |                    |
| [ Thrombus TGLs = 2-18 ]  |                     |                               |                    |
| * Nose                    | Olfactory Epi       | Accumulation, Hyaline Droplet | Minimal            |
| * Ovary                   | Bilateral, Follicle | Cyst                          |                    |
|                           | Bilateral           | Polyarteritis Nodosa          | Minimal            |
| [ Cyst TGLs = 1 - 15 ]    |                     |                               |                    |
| * Pancreas                |                     | Polyarteritis Nodosa          | Mild               |
| * Pituitary Gland         |                     | Cyst                          |                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 423

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 721

**DOSE:** 3000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300968

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Cyst TGLs = 3 - 11 ]

* Spleen	Extramedullary Hematopoiesis	Moderate
	Pigment	Minimal
* Thymus	Atrophy	Minimal
* Urinary Bladder	Polyarteritis Nodosa	Minimal
* Uterus	Polyarteritis Nodosa	Mild

---

PRIMARY CAUSE OF DEATH - Blood Vessel Thrombus

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 424

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Pancreas                 | * Salivary Glands         |
| * Skin                      | * Stomach, Forestomach   | * Trachea                  | * Urinary Bladder         |
| Vagina                      |                          |                            |                           |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |   |   |                               |                        |
|---|---|-------------------------------|------------------------|
| * Bone Marrow   |   | Hypercellularity              | Moderate               |
| * Brain   |   | Degeneration                  | Minimal                |
| Note: There is axon loss in the rostral commissures, likely secondary to the pituitary adenoma. |   |                               |                        |
| * Islets, Pancreatic  |   | Hyperplasia                   | Minimal                |
| * Kidney  |   | Nephropathy                   | Chronicprogr, Mild     |
| * Liver   | Hepatocyte                              | Cytoplasmic Alteration        | Minimal                |
|   |   | Eosinophilic Focus            |                        |
|   | Bile Duct                               | Hyperplasia                   | Minimal                |
|   |   | Pigment                       | Mild                   |
| * Lung  |   | Infiltration Cellular         | Histiocyte, Moderate   |
|   |   | Inflammation                  | Granulomatous, Minimal |
|   | [ Infiltration Cellular TGLs = 1- 6+7 ] |                               |                        |
| * Nose  | Olfactory Epi                           | Accumulation, Hyaline Droplet | Mild                   |
| * Ovary   | Bilateral                               | Atrophy                       | Moderate               |
| * Pituitary Gland   | Pars Distalis                           | Adenoma                       |                        |
|   | [ Adenoma TGLs = 2 - 11 ]               |                               |                        |
| * Spleen  |   | Extramedullary Hematopoiesis  | Mild                   |
|   |   | Pigment                       | Mild                   |
| * Stomach, Glandular  |   | Mineral                       | Minimal                |
| * Thymus  |   | Atrophy                       | Minimal                |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 424

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300969

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Polyp Stromal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 425

TRT#: 8

SEX: Female

DAY ON TEST: 653

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | Vagina                     |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow     |  | Hypercellularity              | Moderate              |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           | Hepatocyte                               | Cytoplasmic Alteration        | Minimal               |
|                   |  | Necrosis                      | Moderate              |
|                   |  | Regeneration                  | Mild                  |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate  |
| * Mammary Gland   |  | Fibroadenoma                  | Multiple              |
|                   | [ Fibroadenoma TGLs = 1,2,3 - 18+19+20 ] |                               |                       |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                  |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Mild                  |
| * Spleen          | White Pulp                               | Atrophy                       | Minimal               |
|                   |  | Extramedullary Hematopoiesis  | Moderate              |
|                   |  | Pigment                       | Minimal               |
| * Thymus          |  | Atrophy                       | Marked                |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Minimal       |
|                   | Endometrium                              | Squamous Metaplasia           | Mild                  |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 427

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | Vagina                      |                          |

OBSERVATIONS

- |                 |  |                               |                       |
|-----------------|--|-------------------------------|-----------------------|
| * Kidney        |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver         |  | Clear Cell Focus              |                       |
|                 | Bile Duct                                | Hyperplasia                   | Minimal               |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                 | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                       |
| * Mammary Gland |  | Fibroadenoma                  |                       |
|                 | [ Fibroadenoma TGLs = 1 - 18 ]           | Hyperplasia                   | Minimal               |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
|                 | Respirat Epith                           | Accumulation, Hyaline Droplet | Minimal               |
| * Ovary         | Follicle                                 | Cyst                          |                       |
| * Spleen        |  | Extramedullary Hematopoiesis  | Mild                  |
|                 |  | Pigment                       | Mild                  |
| * Thymus        |  | Atrophy                       | Moderate              |
| * Uterus        |  | Polyp Stromal                 |                       |
|                 | [ Polyp Stromal TGLs = 2 - 16 ]          |                               |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

**ANIMAL ID:** 428

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300973

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus	Vagina		

**OBSERVATIONS**

* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Follicle	Cyst	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Stomach, Forestomach		Mineral	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 429

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Mild
- \* Kidney
- Nephropathy
- Chronicprogr, Minimal
- \* Liver
- Clear Cell Focus
- Hepatocyte
- Cytoplasmic Alteration
- Mild
- Bile Duct
- Hyperplasia
- Minimal
- \* Lung
- Pigment
- Mild
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- Infiltration Cellular
- Histiocyte, Mild
- Inflammation
- Granulomatous, Minimal
- \* Mammary Gland
- Hyperplasia
- Minimal
- \* Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Moderate
- \* Ovary
- Bilateral
- Atrophy
- Mild
- \* Spleen
- Extramedullary Hematopoiesis
- Mild
- Pigment
- Mild
- \* Thymus
- Atrophy
- Mild
- \* Uterus
- Endometrium
- Hyperplasia
- Cystic, Minimal
- Endometrium
- Squamous Metaplasia
- Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 431

TRT#: 8

SEX: Female

DAY ON TEST: 701

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300976

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Thyroid Gland
- Vagina
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Salivary Glands
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Stomach, Glandular
- \* Uterus

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Bone Marrow
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Stomach, Forestomach
- \* Thymus
- Hepatocyte
- Hepatocyte
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- [ Fibroadenoma TGLs = 1 - 18 ]
- Olfactory Epi
- Germinal Epith
- Pars Distalis
- Epithelium
- Hypercellularity
- Cytoplasmic Alteration
- Extramedullary Hematopoiesis
- Hypertrophy
- Necrosis
- Pigment
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Hyperplasia
- Inflammation
- Atrophy
- Marked
- Mild
- Minimal
- Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Mild
- Moderate
- Moderate
- Minimal
- Moderate
- Moderate
- Chronic Active, Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

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**ANIMAL ID:** 431

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 701

**DOSE:** 3000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300976

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 432

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300977

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | Vagina                     |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |   |                               |                        |
|-------------------|---|-------------------------------|------------------------|
| * Bone Marrow     |   | Hypercellularity              | Mild                   |
| * Kidney          |   | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver           | Hepatocyte                                    | Cytoplasmic Alteration        | Mild                   |
|                   | Bile Duct                                     | Eosinophilic Focus            |                        |
|                   |   | Hyperplasia                   | Minimal                |
|                   |   | Necrosis                      | Minimal                |
|                   |   | Pigment                       | Minimal                |
| * Lung            |   | Infiltration Cellular         | Histiocyte, Mild       |
|                   |   | Inflammation                  | Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 5 - 6+7 ]      |                               |                        |
| * Mammary Gland   |   | Fibroadenoma                  | Multiple               |
|                   | [ Fibroadenoma TGLs = 1,2,3,4 - 18+19+20+21 ] |                               |                        |
| * Nose            | Olfactory Epi                                 | Accumulation, Hyaline Droplet | Moderate               |
| * Ovary           | Bilateral                                     | Atrophy                       | Mild                   |
| * Pituitary Gland | Pars Distalis                                 | Adenoma                       |                        |
|                   | [ Adenoma TGLs = 6 - 11 ]                     |                               |                        |
| * Spleen          |   | Extramedullary Hematopoiesis  | Mild                   |
|                   |   | Pigment                       | Mild                   |
| * Thymus          |   | Atrophy                       | Moderate               |
| * Uterus          | Endometrium                                   | Hyperplasia                   | Cystic, Mild           |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 432

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300977

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Endometrium

Polyp Stromal

Squamous Metaplasia

Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 433

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300978

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Ovary
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Forestomach
- \* Uterus
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Thyroid Gland
- Vagina

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- Hepatocyte
- Bile Duct
- [ Clear Cell Focus TGLs = 4 - 20 ]
- [ Hepatocellular Adenoma TGLs = 1 - 18 ]
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 2 - 19 ]
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Stomach, Glandular
- \* Thymus
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hepatocellular Adenoma
- Hyperplasia
- Pigment
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Atrophy
- Cystic, Minimal
- Mild
- Mild
- Chronicprogr, Minimal
- Mild
- Mild
- Minimal
- Histiocyte, Moderate
- Mild
- Mild
- Minimal
- Mild
- Mild
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 434

TRT#: 8

SEX: Female

DAY ON TEST: 517

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                     |
| * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           | Vagina                   |                            |                           |

OBSERVATIONS

- |                 |                                |                               |                       |
|-----------------|--------------------------------|-------------------------------|-----------------------|
| * Bone Marrow   |                                | Hypercellularity              | Marked                |
| * Heart         |                                | Cardiomyopathy                | Minimal               |
| * Kidney        |                                | Nephropathy                   | Chronicprogr, Minimal |
| * Liver         | Hepatocyte                     | Cytoplasmic Alteration        | Mild                  |
| * Mammary Gland |                                | Fibroadenoma                  |                       |
|                 | [ Fibroadenoma TGLs = 1 - 18 ] |                               |                       |
| * Nose          | Olfactory Epi                  | Accumulation, Hyaline Droplet | Marked                |
| * Ovary         | Bilateral                      | Atrophy                       | Mild                  |
| Oviduct         |                                | Inflammation                  | Chronic, Mild         |
| * Spleen        |                                | Extramedullary Hematopoiesis  | Moderate              |
|                 |                                | Pigment                       | Minimal               |
| * Thymus        |                                | Atrophy                       | Minimal               |
| * Uterus        | Endometrium                    | Hyperplasia                   | Cystic, Minimal       |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 670

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Uterus
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland
- Vagina
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Skin
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Ovary
- [ Cyst TGLs = 3 - 15 ]
- \* Spleen
- [ Extramedullary Hematopoiesis TGLs = 2 - 8 ]
- \* Thymus
- Thrombus
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Hyperplasia
- Necrosis
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Atrophy
- Extramedullary Hematopoiesis
- Atrophy
- Minimal
- Marked
- Chronicprogr, Minimal
- Mild
- Minimal
- Mild
- Histiocyte, Minimal
- Granulomatous, Minimal
- Mild
- Mild
- Mild
- Marked
- Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 436

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300981

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Extramedullary Hematopoiesis

Mild

Pigment

Minimal

\* Thymus

Atrophy

Mild

Ectopic Parathyroid Gland

Minimal

\* Thyroid Gland

C Cell

Adenoma

[ Adenoma TGLs = 3 - 20 ]

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 639

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Stomach, Glandular
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Pancreas
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Stomach, Forestomach
- Vagina

MISSING

- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Thyroid Gland

OBSERVATIONS

- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pituitary Gland
- [ Adenoma TGLs = 1 - 11 ]
- \* Spleen
- \* Thymus
- \* Uterus
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Atrophy
- Pigment
- Atrophy
- Hyperplasia
- Minimal
- Minimal
- Chronicprogr, Mild
- Minimal
- Histiocyte, Mild
- Moderate
- Mild
- Minimal
- Mild
- Mild
- Cystic, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 438

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Moderate
- \* Heart
- Cardiomyopathy
- Minimal
- \* Islets, Pancreatic
- Hyperplasia
- Minimal
- \* Kidney
- Nephropathy
- Chronicprogr, Mild
- \* Liver
- Clear Cell Focus
- Extramedullary Hematopoiesis
- Minimal
- Hepatocellular Adenoma
- Pigment
- Minimal
- [ Hepatocellular Adenoma TGLs = 1 - 12 ]
- \* Lung
- Infiltration Cellular
- Histiocyte, Mild
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
- Fibroadenoma
- Galactoceles
- Mild
- [ Fibroadenoma TGLs = 2 - 18 ]
- [ Galactoceles TGLs = 4 - 19 ]
- \* Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Mild
- \* Ovary
- Bilateral
- Atrophy
- Mild
- \* Pancreas
- Acinus
- Atrophy
- Minimal
- \* Pituitary Gland
- Pars Distalis
- Hyperplasia
- Mild
- \* Spleen
- Extramedullary Hematopoiesis
- Moderate
- Pigment
- Minimal
- \* Thymus
- Atrophy
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 438

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300983

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Endometrium

Squamous Metaplasia

Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 707

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Salivary Glands
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Skin
- \* Urinary Bladder
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Stomach, Forestomach
- Vagina

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Medulla  
Blood Vessel
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- [ Galactocele TGLs = 1,2 - 18+19 ]
- Mesentery
- [ Polyarteritis Nodosa TGLs = 3-20 ]
- \* Nose
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- [ Adenoma TGLs = 4 - 11 ]
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- Hepatocyte
- Olfactory Epi
- Bilateral
- Pars Distalis
- C Cell
- Pheochromocytoma Benign
- Aneurysm
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Pigment
- Inflammation
- Galactocele
- Hyperplasia
- Polyarteritis Nodosa
- Accumulation, Hyaline Droplet
- Atrophy
- Polyarteritis Nodosa
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Mild
- Moderate
- Chronicprogr, Moderate
- Mild
- Minimal
- Granulomatous, Minimal
- Marked
- Mild
- Mild
- Marked
- Mild
- Mild
- Mild
- Moderate
- Minimal
- Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 439

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 707

**DOSE:** 3000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300984

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

---

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 440

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Parathyroid Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Moderate
- \* Intestine Large, Cecum
- Artery
- Polyarteritis Nodosa
- Minimal
- \* Kidney
- Nephropathy
- Chronicprogr, Mild
- \* Liver
- Hepatocyte
- Cytoplasmic Alteration
- Mild
- Hepatocellular Adenoma
- Pigment
- Minimal
- [ Hepatocellular Adenoma TGLs = 1 - 18 ]
- \* Lung
- Infiltration Cellular
- Histiocyte, Marked
- Inflammation
- Granulomatous, Minimal
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- Hyperplasia
- Marked
- \* Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Moderate
- \* Ovary
- Bilateral
- Atrophy
- Moderate
- \* Pituitary Gland
- Pars Distalis
- Hyperplasia
- Moderate
- \* Spleen
- Extramedullary Hematopoiesis
- Minimal
- Pigment
- Mild
- \* Thymus
- Atrophy
- Moderate
- \* Thyroid Gland
- C Cell
- Adenoma
- Follicular Cel
- Adenoma
- [ Adenoma TGLs = 3 - 11 ]
- \* Uterus
- Endometrium
- Hyperplasia
- Cystic, Mild
- Endometrium
- Squamous Metaplasia
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 441

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Trachea
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Forestomach
- Vagina
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Glandular

OBSERVATIONS

- \* Bone Marrow
- \* Harderian Gland
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Hepatocyte
- Hypercellularity
- Atrophy
- Nephropathy
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Hyperplasia
- Polyp Stromal
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Moderate
- Histiocyte, Mild
- Moderate
- Moderate
- Minimal
- Mild
- Mild
- Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 442

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300987

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Polyp Stromal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 443

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Ovary
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Forestomach
- Vagina
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Hepatocyte
- Bile Duct
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- [ Fibroadenoma TGLs = 1 - 18 ]
- [ Adenoma TGLs = 3 - 11 ]
- Olfactory Epi
- Pars Distalis
- C Cell
- Endometrium
- Angiectasis
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Polyp Stromal
- Mild
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Minimal
- Minimal
- Mild
- Mild
- Minimal
- Minimal
- Mild
- Minimal
- Minimal
- Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 444

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Ovary                    | * Pancreas                | * Parathyroid Gland         |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thymus                 | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |
| * Uterus                 | Vagina                     |                           |                             |

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex  |  | Degeneration                  | Cystic, Mild          |
| * Bone Marrow     |  | Hypercellularity              | Moderate              |
| * Eye             | Choroid                                  | Hyperplasia                   | Mild                  |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           | Hepatocyte                               | Cytoplasmic Alteration        | Mild                  |
|                   |  | Pigment                       | Minimal               |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild      |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Mammary Gland   |  | Fibroadenoma                  |                       |
|                   |  | Hyperplasia                   | Mild                  |
|                   | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                       |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal               |
| * Spleen          |  | Extramedullary Hematopoiesis  | Moderate              |
|                   |  | Pigment                       | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 445

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| Vagina                    |                             |                          |                            |

OBSERVATIONS

- |                     |  |                               |                        |
|---------------------|--|-------------------------------|------------------------|
| * Bone Marrow       |  | Hypercellularity              | Minimal                |
| * Kidney            |  | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver             |  | Basophilic Focus              |                        |
|                     | Bile Duct                                | Cyst                          |                        |
|                     | Hepatocyte                               | Cytoplasmic Alteration        | Minimal                |
|                     | Bile Duct                                | Dilation                      | Moderate               |
|                     |  | Hepatocellular Adenoma        |                        |
|                     | Bile Duct                                | Hyperplasia                   | Minimal                |
|                     |  | Pigment                       | Mild                   |
|                     | [ Dilation TGLs = 1 - 19 ]               |                               |                        |
|                     | [ Hepatocellular Adenoma TGLs = 2 - 12 ] |                               |                        |
| * Lung              |  | Infiltration Cellular         | Histiocyte, Moderate   |
|                     |  | Inflammation                  | Granulomatous, Minimal |
|                     | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                        |
| * Mammary Gland     |  | Fibroadenoma                  |                        |
|                     | [ Fibroadenoma TGLs = 5 - 20 ]           |                               |                        |
| * Nose              | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate               |
| * Ovary             | Bilateral                                | Atrophy                       | Moderate               |
| * Parathyroid Gland |  | Hyperplasia                   | Mild                   |
| * Pituitary Gland   | Pars Distalis                            | Hyperplasia                   | Mild                   |
|                     | [ Hyperplasia TGLs = 4 - 11 ]            |                               |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 445

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300990

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Extramedullary Hematopoiesis

Mild

Pigment

Mild

\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 447

TRT#: 8

SEX: Female

DAY ON TEST: 457

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Liver
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Ovary
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- \* Uterus
- Vagina

MISSING

- \* Thymus

OBSERVATIONS

- \* Bone Marrow
- \* Brain
- \* Kidney
- \* Lung
- \* Nose
- \* Spleen
- Hypercellularity
- Necrosis
- Nephropathy
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Pigment
- Mild
- Marked
- Chronicprogr, Mild
- Histiocyte, Minimal
- Moderate
- Mild
- Moderate

PRIMARY CAUSE OF DEATH

- Brain Necrosis

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 448

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                            |                          |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel               | * Bone                   |
| * Brain                   | * Clitoral Gland            | * Esophagus                | * Eye                    |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Mammary Gland            | * Salivary Glands        |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular       | * Trachea                |
| * Urinary Bladder         | Vagina                      |                            |                          |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |  |               |                               |                       |
|--|---------------|-------------------------------|-----------------------|
| * Bone Marrow                            |               | Hypercellularity              | Marked                |
| * Intestine Small, Ileum                 |               | Adenocarcinoma                | Metastatic (Uterus)   |
| * Kidney                                 |               | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                                  | Hepatocyte    | Cytoplasmic Alteration        | Minimal               |
|  | Bile Duct     | Dilation                      | Mild                  |
|  | Bile Duct     | Hyperplasia                   | Minimal               |
|  |               | Pigment                       | Mild                  |
| [ Dilation TGLs = 2 - 19 ]               |               |                               |                       |
| * Lung                                   |               | Adenocarcinoma                | Metastatic (Uterus)   |
|  |               | Infiltration Cellular         | Histiocyte, Marked    |
|  |               | Inflammation                  | Granulomatous, Mild   |
| [ Infiltration Cellular TGLs = 3 - 6+7 ] |               |                               |                       |
| * Nose                                   | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary                                  |               | Adenocarcinoma                | Metastatic (Uterus)   |
|  | Bilateral     | Atrophy                       | Marked                |
| * Pancreas                               | Acinus        | Atrophy                       | Minimal               |
|  | Acinus        | Hyperplasia                   | Minimal               |
| * Pituitary Gland                        | Pars Distalis | Hyperplasia                   | Minimal               |
| * Spleen                                 | White Pulp    | Atrophy                       | Mild                  |
|  |               | Extramedullary Hematopoiesis  | Moderate              |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 448

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300993

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Thymus		Pigment	Minimal
* Thyroid Gland	C Cell	Atrophy	Mild
* Uterus	Endometrium	Adenoma	
[ Adenocarcinoma	TGLs = 1 - 18 ]	Adenocarcinoma	

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 449

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300994

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Squamous Metaplasia	Mild

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 450

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                   |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Eye                    |
| * Harderian Gland           | * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 | * Parathyroid Gland      |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular     |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | Vagina                   |

OBSERVATIONS

- |                           |  |                               |                       |
|---------------------------|--|-------------------------------|-----------------------|
| * Bone Marrow             |  | Hypercellularity              | Mild                  |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                       |
| * Kidney                  | Epithelium, Papilla                      | Hyperplasia                   | Minimal               |
|                           |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                   | Bile Duct                                | Clear Cell Focus              |                       |
|                           | Hepatocyte                               | Cyst                          |                       |
|                           | Bile Duct                                | Cytoplasmic Alteration        | Mild                  |
|                           |  | Eosinophilic Focus            |                       |
|                           |  | Hyperplasia                   | Mild                  |
|                           |  | Pigment                       | Moderate              |
|                           | [ Eosinophilic Focus TGLs = 4 - 20 ]     |                               |                       |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild      |
|                           | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                       |
| * Mammary Gland           |  | Fibroadenoma                  |                       |
|                           | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                       |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary                   | Bilateral                                | Atrophy                       | Moderate              |
| * Pituitary Gland         | Pars Distalis                            | Hyperplasia                   | Mild                  |
|                           | [ Hyperplasia TGLs = 2 - 19 ]            |                               |                       |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                  |
|                           |  | Pigment                       | Mild                  |
| * Thymus                  |  | Atrophy                       | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 450

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300995

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Endometrium

Squamous Metaplasia

Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 451

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | Vagina                     |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |   |  |                                  |
|-------------------|---|--|----------------------------------|
| * Bone Marrow     |   | Hypercellularity   | Minimal                          |
| * Kidney          | Renal Tubule<br>Papilla                               | Cyst<br>Edema<br>Nephropathy   | Minimal<br>Chronicprogr, Minimal |
| * Liver           | [ Cyst TGLs = 3 - 8 ]<br><br>Hepatocyte<br>Hepatocyte | Basophilic Focus<br>Clear Cell Focus<br>Cytoplasmic Alteration<br>Hypertrophy<br>Pigment | Marked<br>Mild<br>Moderate       |
| * Lung            | [ Infiltration Cellular TGLs = 4 - 6+7 ]              | Infiltration Cellular  | Histiocyte, Mild                 |
| * Mammary Gland   | [ Fibroadenoma TGLs = 2 - 20 ]                        | Fibroadenoma   |                                  |
| * Nose            | Olfactory Epi   | Accumulation, Hyaline Droplet  | Mild                             |
| * Ovary           | Paraovarian   | Cyst   |                                  |
| * Pituitary Gland | [ Cyst TGLs = 1 - 15 ]<br>Pars Distalis               | Hyperplasia  | Minimal                          |
| * Spleen          |   | Extramedullary Hematopoiesis<br>Pigment  | Minimal<br>Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 451

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 10000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300996

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

\* Uterus

Polyp Stromal

---





Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 453

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow: Hypercellularity Moderate
- \* Eye: Retina Degeneration Mild
- \* Heart: Cardiomyopathy Minimal
- \* Kidney: Papilla Edema Mild
- Epithelium, Papilla: Hyperplasia Minimal
- Nephropathy: Chronicprogr, Minimal
- \* Liver: Hepatocyte Cytoplasmic Alteration Marked
- Hepatocyte: Hepatocellular Adenoma
- Hepatocyte: Hypertrophy Moderate
- Pigment: Moderate
- [ Hepatocellular Adenoma TGLs = 3 - 12 ]
- \* Lung: Infiltration Cellular Histiocyte, Marked
- Inflammation: Granulomatous, Minimal
- [ Infiltration Cellular TGLs = 4 - 6+7 ]
- \* Nose: Olfactory Epi Accumulation, Hyaline Droplet Mild
- \* Ovary: Bilateral Atrophy Mild
- \* Parathyroid Gland: Hyperplasia Moderate
- \* Pituitary Gland: Pars Distalis Hyperplasia Minimal
- \* Spleen: Extramedullary Hematopoiesis Mild
- Pigment: Minimal
- \* Thymus: Atrophy Moderate
- \* Thyroid Gland: C Cell Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 453

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 10000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300998

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Uterus

Endometrium

Endometrium

Hemorrhage

Hyperplasia

Squamous Metaplasia

Minimal

Cystic, Mild

Mild

[ Hyperplasia TGLs = 1,2 - 16+17 ]

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 454

TRT#: 10

SEX: Female

DAY ON TEST: 314

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Liver
- \* Ovary
- \* Salivary Glands
- \* Thyroid Gland
- Vagina
- \* Bone
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skin
- \* Trachea
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Uterus

OBSERVATIONS

- \* Adrenal Cortex
- Blood Vessel
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Heart
- \* Kidney
- [ Infarct TGLs = 2 - 8 ]
- [ Nephropathy TGLs = 1 - 8 ]
- \* Lung
- \* Nose
- \* Spleen
- \* Thymus
- Cornea
- Olfactory Epi
- White Pulp
- Degeneration
- Mineral
- Hypercellularity
- Necrosis
- Inflammation
- Mineral
- Infarct
- Nephropathy
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Pigment
- Atrophy
- Cystic, Minimal
- Mild
- Mild
- Mild
- Acute, Mild
- Mild
- Marked
- Chronicprogr, Moderate
- Histiocyte, Mild
- Minimal
- Moderate
- Moderate
- Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy  
 CONTRIBUTORY CAUSE OF DEATH - Brain Necrosis  
 - Kidney Infarct

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 456

TRT#: 10

SEX: Female

DAY ON TEST: 488

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1301001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | Blood Vessel             | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Ovary                   |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | Vagina                    |

OBSERVATIONS

- |                  |   |                               |                       |
|------------------|---|-------------------------------|-----------------------|
| * Adrenal Cortex |   | Degeneration                  | Cystic, Minimal       |
| * Bone Marrow    |   | Hypercellularity              | Mild                  |
| * Kidney         | Renal Tubule                            | Cyst                          |                       |
|                  | Papilla                                 | Edema                         | Mild                  |
|                  |   | Nephropathy                   | Chronicprogr, Minimal |
|                  | [ Cyst TGLs = 2 - 8 ]                   |                               |                       |
| * Liver          | Hepatocyte                              | Cytoplasmic Alteration        | Moderate              |
|                  | Hepatocyte                              | Hypertrophy                   | Mild                  |
|                  |   | Necrosis                      | Mild                  |
|                  |   | Pigment                       | Mild                  |
| * Lung           |   | Infiltration Cellular         | Histiocyte, Mild      |
|                  | [ Infiltration Cellular TGLs = 1- 6+7 ] |                               |                       |
| * Nose           | Olfactory Epi                           | Accumulation, Hyaline Droplet | Mild                  |
| * Spleen         | White Pulp                              | Atrophy                       | Mild                  |
|                  |   | Pigment                       | Mild                  |
| * Uterus         |   | Polyp Stromal                 |                       |

PRIMARY CAUSE OF DEATH - Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 457

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 8

**DOSE:** 10000 ppm Female

**DISP:** Natural Death

**HISTO:** 1301002

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                   | * Mammary Gland            | * Nose                    |
| * Ovary                     | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        | * Uterus                   | Vagina                    |

**MISSING**

- |                  |                          |                   |          |
|------------------|--------------------------|-------------------|----------|
| * Clitoral Gland | * Lymph Node, Mesenteric | * Salivary Glands | * Spleen |
| * Thymus         |                          |                   |          |

**OBSERVATIONS**

- |                          |            |                        |         |
|--------------------------|------------|------------------------|---------|
| * Bone Marrow            |            | Hypocellularity        | Marked  |
| * Liver                  | Hepatocyte | Cytoplasmic Alteration | Mild    |
|                          | Hepatocyte | Hypertrophy            | Minimal |
| * Lymph Node, Mandibular |            | Atrophy                | Marked  |

Note: Mandibular lymph node is on B06 (with some salivary gland).

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 458

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 655

**DOSE:** 10000 ppm Female

**DISP:** Natural Death

**HISTO:** 1301003

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

\* Uterus

Thrombus

Mild

[ Thrombus TGLs = 5 - 17 ]

---

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Necrosis

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 459

TRT#: 10

SEX: Female

DAY ON TEST: 8

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1301004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Bone                    |
| * Brain                     | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Liver                  | * Lung                     | * Mammary Gland           |
| * Nose                      | * Ovary                  | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | * Uterus                  |
| Vagina                      |                          |                            |                           |

MISSING

- |                  |                          |                   |
|------------------|--------------------------|-------------------|
| * Clitoral Gland | * Lymph Node, Mandibular | * Salivary Glands |
|------------------|--------------------------|-------------------|

OBSERVATIONS

- |                          |            |                 |          |
|--------------------------|------------|-----------------|----------|
| * Bone Marrow            |            | Hypocellularity | Moderate |
| * Lymph Node, Mesenteric |            | Atrophy         | Marked   |
| * Spleen                 | White Pulp | Atrophy         | Mild     |
| * Thymus                 |            | Atrophy         | Moderate |

Note: Thymus is underdeveloped largely due to immaturity.

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 460

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Harderian Gland           | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Ovary                   | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Trachea                  |
| * Urinary Bladder         | * Uterus                    | Vagina                   |                            |

OBSERVATIONS

- |                      |  |                               |                       |
|----------------------|--|-------------------------------|-----------------------|
| * Heart              |  | Cardiomyopathy                | Minimal               |
| * Kidney             | Renal Tubule                             | Accumulation, Hyaline Droplet | Minimal               |
|                      | Renal Tubule                             | Cyst                          |                       |
|                      | Papilla                                  | Edema                         | Mild                  |
|                      |  | Infarct                       | Minimal               |
|                      |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver              |  | Clear Cell Focus              |                       |
|                      | Hepatocyte                               | Cytoplasmic Alteration        | Moderate              |
|                      | Bile Duct                                | Hyperplasia                   | Minimal               |
|                      | Hepatocyte                               | Hypertrophy                   | Moderate              |
|                      |  | Pigment                       | Moderate              |
| * Lung               |  | Infiltration Cellular         | Histiocyte, Mild      |
|                      | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                       |
| * Nose               | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                |
| * Spleen             |  | Extramedullary Hematopoiesis  | Minimal               |
|                      |  | Pigment                       | Mild                  |
| * Stomach, Glandular |  | Mineral                       | Minimal               |
| * Thymus             |  | Atrophy                       | Mild                  |
| * Thyroid Gland      | C Cell                                   | Hyperplasia                   | Moderate              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 461

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Bone Marrow             | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Trachea                | * Urinary Bladder          |
| * Uterus                  | Vagina                      |                          |                            |

OBSERVATIONS

- |  |                     |                               |                       |
|--|---------------------|-------------------------------|-----------------------|
| * Brain  | Meninges            | Hyperplasia                   | Minimal               |
| Note: Granular cell hyperplasia in meninges; not available as a cell type/site in TDMSE. |                     |                               |                       |
| * Kidney   | Papilla             | Edema                         | Minimal               |
|  |                     | Nephropathy                   | Chronicprogr, Minimal |
| * Liver  |                     | Basophilic Focus              |                       |
|  |                     | Clear Cell Focus              |                       |
|  | Hepatocyte          | Cytoplasmic Alteration        | Marked                |
|  |                     | Degeneration                  | Cystic, Minimal       |
|  |                     | Eosinophilic Focus            |                       |
|  | Bile Duct           | Hyperplasia                   | Minimal               |
|  | Hepatocyte          | Hypertrophy                   | Moderate              |
|  |                     | Pigment                       | Moderate              |
| * Lung   |                     | Infiltration Cellular         | Histiocyte, Mild      |
| [ Infiltration Cellular TGLs = 1 - 6+7 ]   |                     |                               |                       |
| * Mammary Gland  |                     | Hyperplasia                   | Mild                  |
| * Nose   | Olfactory Epi       | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary  | Bilateral, Follicle | Cyst                          |                       |
| * Spleen   |                     | Extramedullary Hematopoiesis  | Minimal               |
|  |                     | Pigment                       | Mild                  |
| * Thymus   |                     | Atrophy                       | Minimal               |
| * Thyroid Gland  | C Cell              | Adenoma                       |                       |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 462

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 10000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1301007

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Minimal

\* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 463

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1301008

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Vagina

Polyp

[ Polyp TGLs = 5 - 20 ]

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 464

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Ovary
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Uterus
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Thyroid Gland
- Vagina
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
  - Degeneration
  - Hyperplasia
- \* Bone Marrow
  - Hypercellularity
- \* Heart
  - Cardiomyopathy
- \* Intestine Large, Rectum
  - Parasite Metazoan
- \* Kidney
  - Renal Tubule
    - Cyst
  - Papilla
    - Edema
  - Epithelium, Papilla
    - Hyperplasia
- \* Liver
  - Hepatocyte
    - Nephropathy
    - Cytoplasmic Alteration
    - Eosinophilic Focus
    - Hepatocellular Carcinoma
  - Hepatocyte
    - Hypertrophy
    - Pigment
- [ Hepatocellular Carcinoma TGLs = 1 - 18 ]
- \* Lung
  - Infiltration Cellular
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
  - Fibroadenoma
  - Hyperplasia
- [ Fibroadenoma TGLs = 2 - 19 ]

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 464

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1301009

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Pancreas	Acinus	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Minimal

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 465

TRT#: 10

SEX: Female

DAY ON TEST: 642

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1301010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Duodenum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

MISSING

- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Marked
- \* Intestine Large, Rectum
- Parasite Metazoan
- \* Intestine Small, Ileum
- Parasite Metazoan
- \* Kidney
- Papilla
- Edema
- Minimal
- \* Liver
- Hepatocyte
- Nephropathy
- Chronicprogr, Minimal
- Cytoplasmic Alteration
- Moderate
- Necrosis
- Mild
- Pigment
- Moderate
- \* Lung
- Infiltration Cellular TGLs = 4 - 6+7 ]
- Infiltration Cellular
- Histiocyte, Moderate
- \* Mammary Gland
- Fibroadenoma
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Minimal
- \* Spleen
- White Pulp
- Atrophy
- Mild
- Extramedullary Hematopoiesis
- Moderate
- \* Thymus
- Atrophy
- Mild
- \* Uterus
- Dilation
- Marked
- Inflammation
- Chronic Active, Marked
- Squamous Cell Carcinoma
- Multiple
- Endometrium
- Squamous Metaplasia
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

---

**ANIMAL ID:** 465

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 642

**DOSE:** 10000 ppm Female

**DISP:** Natural Death

**HISTO:** 1301010

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Dilation TGLs = 2,3 - 16 ]

---

PRIMARY CAUSE OF DEATH

- Uterus Inflammation

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 466

TRT#: 10

SEX: Female

DAY ON TEST: 515

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1301011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder
- \* Uterus
- Vagina

MISSING

- \* Eye
- \* Harderian Gland
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Thyroid Gland

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Moderate
- \* Heart
- Mineral
- Minimal
- \* Kidney
- Papilla
- Edema
- Minimal
- Nephroblastoma
- [ Nephroblastoma TGLs = 1 - 18 ]
- \* Liver
- Necrosis
- Moderate
- \* Lung
- Infiltration Cellular
- Histiocyte, Minimal
- Lymph Node
- Renal
- Nephroblastoma
- Metastatic (Kidney)
- [ Nephroblastoma TGLs = 2 - 19 ]
- \* Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Minimal
- \* Spleen
- White Pulp
- Atrophy
- Moderate
- Extramedullary Hematopoiesis
- Mild
- Pigment
- Mild
- \* Thymus
- Atrophy
- Mild

PRIMARY CAUSE OF DEATH - Kidney Nephroblastoma

CONTRIBUTORY CAUSE OF DEATH - Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 467

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Skin
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Uterus
- Papilla
- Epithelium, Papilla
- Hepatocyte
- Hepatocyte
- [ Eosinophilic Focus TGLs = 2 - 12 ]
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- Olfactory Epi
- Bilateral
- Pars Distalis
- Endometrium
- [ Adenocarcinoma TGLs = 1 - 18 ]
- Degeneration
- Hypercellularity
- Edema
- Hyperplasia
- Nephropathy
- Cytoplasmic Alteration
- Eosinophilic Focus
- Hypertrophy
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenocarcinoma
- Cystic, Minimal
- Moderate
- Minimal
- Minimal
- Chronicprogr, Minimal
- Marked
- Minimal
- Moderate
- Histiocyte, Mild
- Granulomatous, Minimal
- Moderate
- Mild
- Mild
- Mild
- Minimal
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 468

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 2

**DOSE:** 10000 ppm Female

**DISP:** Natural Death

**HISTO:** 1301013

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                   |         |                     |                   |
|-------------------|---------|---------------------|-------------------|
| * Bone            | * Brain | * Esophagus         | * Eye             |
| * Harderian Gland | * Nose  | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin  | * Thyroid Gland     | * Trachea         |
| Vagina            |         |                     |                   |

**MISSING**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | Blood Vessel               | * Clitoral Gland          |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Liver                  | * Lung                     | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Ovary                  | * Pancreas                 | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

**OBSERVATIONS**

- |                          |                 |          |
|--------------------------|-----------------|----------|
| * Bone Marrow            | Hypocellularity | Mild     |
| * Lymph Node, Mandibular | Atrophy         | Moderate |

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 469

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Ovary                    | * Pancreas                | * Parathyroid Gland         |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Trachea                | * Urinary Bladder          | * Uterus                  | Vagina                      |

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Adrenal Cortex  |  | Degeneration                  | Cystic, Minimal        |
| * Bone Marrow     |  | Hypercellularity              | Moderate               |
| * Eye             | Cornea                                   | Inflammation                  | Acute, Minimal         |
| * Kidney          | Epithelium, Papilla                      | Hyperplasia                   | Minimal                |
|                   |  | Infarct                       | Minimal                |
|                   |  | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver           | Hepatocyte                               | Cytoplasmic Alteration        | Marked                 |
|                   | Hepatocyte                               | Eosinophilic Focus            |                        |
|                   |  | Hypertrophy                   | Moderate               |
|                   |  | Pigment                       | Mild                   |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Marked     |
|                   |  | Inflammation                  | Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                        |
| * Mammary Gland   |  | Fibroadenoma                  |                        |
|                   | [ Fibroadenoma TGLs = 1 - 19 ]           |                               |                        |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                   |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal                |
| * Spleen          |  | Extramedullary Hematopoiesis  | Minimal                |
|                   |  | Pigment                       | Minimal                |
| * Thymus          |  | Atrophy                       | Mild                   |
| * Thyroid Gland   | Follicular Cel                           | Adenoma                       |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 470

TRT#: 10

SEX: Female

DAY ON TEST: 592

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1301015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

MISSING

- \* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Moderate
* Kidney	Renal Tubule	Cyst	
	Papilla	Edema	Mild
	Papilla	Hemorrhage	Minimal
		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Moderate
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Mild
		Pigment	Moderate
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

---

**ANIMAL ID:** 470

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 592

**DOSE:** 10000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1301015

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 471

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow: Hypercellularity, Moderate
- \* Kidney: Papilla, Edema, Minimal; Nephropathy, Chronicprogr, Minimal
- \* Liver: Hepatocyte, Basophilic Focus, Cytoplasmic Alteration, Marked; Eosinophilic Focus, Hypertrophy, Moderate; Pigment, Moderate
- \* Lung: [ Eosinophilic Focus TGLs = 1 - 19 ], [ Infiltration Cellular TGLs = 5 - 6+7 ], Infiltration Cellular, Histiocyte, Mild
- \* Nose: Olfactory Epi, Accumulation, Hyaline Droplet, Minimal
- \* Ovary: Bilateral, Atrophy, Mild
- \* Pancreas: Acinus, Atrophy, Minimal; Acinus, Hyperplasia, Moderate
- \* Spleen: [ Hyperplasia TGLs = 4 - 21 ], Extramedullary Hematopoiesis, Mild
- \* Thymus: Atrophy, Minimal
- \* Uterus: Endometrium, Adenocarcinoma; Endometrium, Hyperplasia, Cystic, Moderate
- [ Adenocarcinoma TGLs = 3 - 20 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

---

**ANIMAL ID:** 471

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 10000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1301016

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLs = 2 - 16 ]

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 472

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus	Vagina	

OBSERVATIONS

* Bone Marrow		Hypercellularity	Mild
* Kidney	Papilla	Edema	Mild
		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Marked
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Moderate
		Pigment	Mild
	[ Hepatocellular Carcinoma TGLs = 1 - 18 ]		
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 4 - 6+7 ]		
* Mammary Gland		Hyperplasia	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary		Cyst	
	[ Cyst TGLs = 3 - 15 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 473

TRT#: 10

SEX: Female

DAY ON TEST: 624

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1301018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea
- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Thyroid Gland

OBSERVATIONS

- \* Bone Marrow
  - \* Eye
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Mammary Gland
  - \* Nose
- [ Hepatocellular Carcinoma TGLs = 1 - 18 ]
- [ Adenocarcinoma TGLs = 2,3,4,5,6 - 6+7+19+22 ]
- [ Infiltration Cellular TGLs = 7 - 6+7+22 ]
- [ Adenocarcinoma TGLs = 10 - 21 ]
- [ Adenocarcinoma TGLs = 9 - 20 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 473

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 624

**DOSE:** 10000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1301018

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Ovary	Bilateral	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Squamous Metaplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 474

TRT#: 10

SEX: Female

DAY ON TEST: 616

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1301019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Glandular
- Vagina
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pituitary Gland
- \* Thyroid Gland

MISSING

- \* Lymph Node, Mandibular
- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Ovary
- \* Salivary Glands
- \* Spleen
- \* Thymus
- \* Uterus
- Degeneration
- Hypercellularity
- Dilation
- Edema
- Hyperplasia
- Nephropathy
- Cytoplasmic Alteration
- Extramedullary Hematopoiesis
- Hypertrophy
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Sarcoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Cystic, Minimal
- Moderate
- Minimal
- Mild
- Minimal
- Chronicprogr, Mild
- Marked
- Minimal
- Moderate
- Histiocyte, Mild
- Moderate
- Moderate
- Moderate
- Minimal
- Mild
- Cystic, Minimal

[ Infiltration Cellular TGLs = 2 - 6+7 ]

[ Sarcoma TGLs = 1 - 18 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 02

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 06/02/2020

**Time Report Requested:** 13:48:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

---

**ANIMAL ID:** 474

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 616

**DOSE:** 10000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1301019

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Salivary Glands Sarcoma

---



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 475

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  |
| * Urinary Bladder         | Vagina                      |                          |                            |

OBSERVATIONS

- |                 |  |                               |                       |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow   |  | Hypercellularity              | Moderate              |
| * Kidney        | Papilla                                  | Edema                         | Minimal               |
|                 | Papilla                                  | Hemorrhage                    | Minimal               |
|                 |  | Infarct                       | Minimal               |
|                 |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver         | Hepatocyte                               | Cytoplasmic Alteration        | Marked                |
|                 | Hepatocyte                               | Hypertrophy                   | Mild                  |
|                 |  | Pigment                       | Mild                  |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                 | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary         | Bilateral                                | Atrophy                       | Moderate              |
|                 | Bursa                                    | Cyst                          |                       |
|                 | [ Cyst TGLs = 1 - 20 ]                   |                               |                       |
| * Spleen        |  | Extramedullary Hematopoiesis  | Mild                  |
|                 |  | Pigment                       | Mild                  |
| * Thymus        |  | Atrophy                       | Minimal               |
| * Thyroid Gland | C Cell                                   | Hyperplasia                   | Minimal               |
| * Uterus        | Endometrium                              | Hyperplasia                   | Cystic, Minimal       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 476

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Mammary Gland
  - \* Nose
  - \* Ovary
  - \* Spleen
  - \* Thymus
  - \* Thyroid Gland
  - \* Uterus
- [ Infiltration Cellular TGLs = 1 - 7 ]
- Papilla
  - Hepatocyte
  - Hepatocyte
  - Olfactory Epi
  - Bilateral, Follicle
  - Follicular Cel
- Hypercellularity
  - Edema
  - Nephropathy
  - Clear Cell Focus
  - Cytoplasmic Alteration
  - Hypertrophy
  - Pigment
  - Infiltration Cellular
  - Hyperplasia
  - Accumulation, Hyaline Droplet
  - Cyst
  - Extramedullary Hematopoiesis
  - Pigment
  - Atrophy
  - Adenoma
  - Polyp Stromal
- Mild
  - Minimal
  - Chronicprogr, Mild
  - Marked
  - Moderate
  - Moderate
  - Histiocyte, Minimal
  - Minimal
  - Moderate
  - Mild
  - Mild
  - Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 477

TRT#: 10

SEX: Female

DAY ON TEST: 37

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1301022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                   | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    | Vagina                   |                            |

MISSING

- |                 |          |
|-----------------|----------|
| * Mammary Gland | * Thymus |
|-----------------|----------|

OBSERVATIONS

- |  |              |          |         |
|--|--------------|----------|---------|
| Blood Vessel   |              | Mineral  | Minimal |
| * Kidney   | Renal Tubule | Dilation | Marked  |
| Note: Actual cause of death may have been urethral obstruction, to have caused such marked tubular dilation. |              |          |         |
| * Spleen   | White Pulp   | Atrophy  | Marked  |

PRIMARY CAUSE OF DEATH - Kidney Renal Tubule Dilation

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 478

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Salivary Glands          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         | Vagina                      |

OBSERVATIONS

- |                  |  |                               |                       |
|------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex |  | Degeneration                  | Cystic, Minimal       |
| * Bone Marrow    |  | Hypercellularity              | Mild                  |
| * Heart          | Endocardium                                | Schwannoma Malignant          |                       |
| * Kidney         | Papilla                                    | Edema                         | Minimal               |
|                  |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver          |  | Basophilic Focus              |                       |
|                  | Hepatocyte                                 | Cytoplasmic Alteration        | Marked                |
|                  | Hepatocyte                                 | Hepatocellular Carcinoma      |                       |
|                  |  | Hypertrophy                   | Mild                  |
|                  |  | Pigment                       | Moderate              |
|                  | [ Hepatocellular Carcinoma TGLs = 1 - 18 ] |                               |                       |
| * Lung           |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                  | [ Infiltration Cellular TGLs = 4 - 6+7 ]   |                               |                       |
| * Nose           | Olfactory Epi                              | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary          | Bilateral                                  | Atrophy                       | Mild                  |
| * Spleen         |  | Extramedullary Hematopoiesis  | Mild                  |
|                  |  | Pigment                       | Minimal               |
| * Thymus         |  | Atrophy                       | Mild                  |
| * Thyroid Gland  | C Cell                                     | Adenoma                       |                       |
|                  | [ Adenoma TGLs = 2 - 11 ]                  |                               |                       |
| * Uterus         | Endometrium                                | Hyperplasia                   | Cystic, Moderate      |
|                  | Endometrium                                | Squamous Metaplasia           | Minimal               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 478

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 10000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1301023

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 3 - 16+17 ]

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 479

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone Marrow
- \* Brain
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Mammary Gland
- \* Ovary
- \* Salivary Glands
- \* Skin
- \* Thyroid Gland
- \* Trachea
- \* Blood Vessel
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Uterus

OBSERVATIONS

- \* Kidney
  - Renal Tubule
  - Papilla
  - Epithelium, Papilla
- Dilation
  - Edema
  - Hyperplasia
  - Infarct
  - Nephropathy
- Mild
- Mild
- Minimal
- Moderate
- Chronicprogr, Minimal
- [ Infarct TGLs = 1 - 8 ]
- \* Liver
  - Hepatocyte
  - Hepatocyte
- Basophilic Focus
  - Cytoplasmic Alteration
  - Hypertrophy
  - Pigment
  - Infiltration Cellular
- Moderate
- Moderate
- Moderate
- Histiocyte, Mild
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose
  - Olfactory Epi
- \* Pancreas
  - Acinus
- \* Spleen
  - Accumulation, Hyaline Droplet
  - Hyperplasia
  - Extramedullary Hematopoiesis
  - Pigment
- Moderate
- Mild
- Mild
- Minimal
- \* Thymus
  - Atrophy
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 480

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Thyroid Gland
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Skin
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Glandular
- Vagina

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Spleen
- \* Thymus
- \* Uterus
- Papilla
- Epithelium, Papilla
- Hepatocyte
- Bile Duct
- Hepatocyte
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- Olfactory Epi
- Bilateral, Follicle
- Degeneration
- Hypercellularity
- Parasite Metazoan
- Edema
- Hyperplasia
- Nephropathy
- Cytoplasmic Alteration
- Hyperplasia
- Hypertrophy
- Pigment
- Infiltration Cellular
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Dilation
- Cystic, Minimal
- Minimal
- Moderate
- Minimal
- Chronicprogr, Minimal
- Marked
- Minimal
- Marked
- Moderate
- Histiocyte, Mild
- Minimal
- Moderate
- Minimal
- Mild
- Moderate
- Minimal
- [ Dilation TGLs = 2 - 16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 481

TRT#: 10

SEX: Female

DAY ON TEST: 732

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Forestomach
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Skin
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Ovary
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Papilla
- Hepatocyte
- Hepatocyte
- Respirat Epith
- Olfactory Epi
- Bilateral, Follicle
- Follicular Cel
- Hyperplasia
- Hypercellularity
- Edema
- Nephropathy
- Cytoplasmic Alteration
- Hypertrophy
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Accumulation, Hyaline Droplet
- Cyst
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Polyp Stromal
- Mild
- Mild
- Mild
- Chronicprogr, Minimal
- Marked
- Moderate
- Moderate
- Histiocyte, Mild
- Minimal
- Mild
- Minimal
- Mild
- Marked
- Minimal

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 483

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder
- \* Uterus
- Vagina

OBSERVATIONS

- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- Papilla
- Epithelium, Papilla
- Hepatocyte
- Hepatocyte
- [ Hepatocellular Carcinoma TGLs = 1 - 18 ]
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- Olfactory Epi
- Follicle
- C Cell
- Hypercellularity
- Edema
- Hyperplasia
- Infarct
- Nephropathy
- Basophilic Focus
- Cytoplasmic Alteration
- Hepatocellular Carcinoma
- Hypertrophy
- Pigment
- Infiltration Cellular
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Mild
- Mild
- Minimal
- Minimal
- Chronicprogr, Minimal
- Moderate
- Mild
- Moderate
- Histiocyte, Moderate
- Minimal
- Mild
- Mild
- Mild
- Mild
- Moderate

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 485

TRT#: 10

SEX: Female

DAY ON TEST: 701

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1301030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Ovary
  - \* Pituitary Gland
  - \* Spleen
  - \* Stomach, Glandular
  - \* Thymus
  - \* Uterus
- Papilla
- [ Cholangioma TGLs = 3 - 19 ]  
 [ Eosinophilic Focus TGLs = 4 - 20 ]  
 [ Necrosis TGLs = 5 - 21 ]
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- Olfactory Epi
- Bilateral
- Pars Distalis
- White Pulp
- Hypercellularity
- Edema
- Infarct
- Cholangioma
- Eosinophilic Focus
- Necrosis
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Atrophy
- Dilation
- Marked
- Minimal
- Minimal
- Moderate
- Minimal
- Moderate
- Minimal
- Moderate
- Minimal
- Minimal
- Moderate
- Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 485

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 701

**DOSE:** 10000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1301030

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Hemorrhage

Moderate

[ Dilation TGLs = 1 - 17+18 ]

---

PRIMARY CAUSE OF DEATH

- Uterus Hemorrhage

---

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 486

TRT#: 10

SEX: Female

DAY ON TEST: 2

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1301031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Liver                  | * Lung                     |
| * Mammary Gland           | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           | * Uterus                 | Vagina                     |

OBSERVATIONS

- |                          |                 |        |
|--------------------------|-----------------|--------|
| * Bone Marrow            | Hypocellularity | Mild   |
| * Lymph Node, Mandibular | Atrophy         | Marked |
| * Lymph Node, Mesenteric | Atrophy         | Marked |
| * Thymus                 | Necrosis        | Mild   |

PRIMARY CAUSE OF DEATH - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 487

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- Vagina

OBSERVATIONS

- \* Bone Marrow: Hypercellularity, Moderate
- \* Kidney: Papilla: Edema, Mild; Epithelium, Papilla: Hyperplasia, Minimal; Nephropathy, Chronicprogr, Minimal
- \* Liver: Clear Cell Focus; Hepatocyte: Cytoplasmic Alteration, Marked; Hepatocyte: Hepatocellular Carcinoma, Hypertrophy, Mild; Pigment, Moderate
- [ Hepatocellular Carcinoma TGLs = 1 - 18 ]
- \* Lung: Infiltration Cellular, Histiocyte, Minimal
- \* Nose: Accumulation, Hyaline Droplet, Moderate
- \* Ovary: Bilateral: Atrophy, Mild; Follicle: Cyst
- \* Spleen: Extramedullary Hematopoiesis, Mild; Pigment, Minimal
- \* Stomach, Forestomach: Epithelium: Hyperplasia, Mild
- \* Thymus: Atrophy, Moderate
- \* Uterus: Endometrium: Hyperplasia, Cystic, Mild; Endometrium: Polyp Stromal; Endometrium: Squamous Metaplasia, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 488

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder
- \* Vagina

OBSERVATIONS

- \* Bone Marrow
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Mammary Gland
  - \* Nose
  - \* Ovary
  - \* Pancreas
  - \* Spleen
  - \* Stomach, Forestomach
  - \* Thymus
  - \* Thyroid Gland
  - \* Uterus
- Papilla
- Hepatocyte
- Hepatocyte
- [ Hepatocellular Adenoma TGLs = 1,2,3,4 - 18+19+20+21 ]
- [ Infiltration Cellular TGLs = 6 - 6+7 ]
- [ Fibroadenoma TGLs = 5 - 22 ]
- Olfactory Epi
- Bilateral
- Acinus
- Epithelium
- Follicular Cel
- Endometrium
- Hypercellularity
- Edema
- Nephropathy
- Cytoplasmic Alteration
- Hepatocellular Adenoma
- Hypertrophy
- Pigment
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Metaplasia
- Extramedullary Hematopoiesis
- Pigment
- Hyperplasia
- Atrophy
- Ectopic Parathyroid Gland
- Hyperplasia
- Hyperplasia
- Moderate
- Minimal
- Chronicprogr, Minimal
- Marked
- Multiple
- Moderate
- Moderate
- Histiocyte, Moderate
- Mild
- Moderate
- Hepatocyte, Minimal
- Mild
- Minimal
- Moderate
- Mild
- Mild
- Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 489

TRT#: 10

SEX: Female

DAY ON TEST: 737

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- \* Uterus
- \* Vagina

OBSERVATIONS

- \* Bone Marrow
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Mammary Gland
  - \* Nose
  - \* Ovary
  - \* Spleen
  - \* Stomach, Glandular
- Papilla
- Epithelium, Papilla
- Hepatocyte
- Hepatocyte
- [ Hepatocellular Adenoma TGLs = 3 - 12 ]
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- Olfactory Epi
- Germinal Epith
- [ Cyst TGLs = 1 - 15 ]

- Hypercellularity
- Edema
- Hyperplasia
- Infarct
- Nephropathy
- Basophilic Focus
- Cytoplasmic Alteration
- Hepatocellular Adenoma
- Hypertrophy
- Pigment
- Infiltration Cellular
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Extramedullary Hematopoiesis
- Pigment
- Mineral

- Mild
- Minimal
- Mild
- Minimal
- Chronicprogr, Mild
- Moderate
- Moderate
- Mild
- Histiocyte, Mild
- Minimal
- Marked
- Minimal
- Mild
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

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Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 490

TRT#: 10

SEX: Female

DAY ON TEST: 4

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1301035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | Blood Vessel             | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Liver                  | * Lung                     | * Mammary Gland           |
| * Nose                      | * Ovary                  | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |
| * Uterus                    | Vagina                   |                            |                           |

MISSING

- |                   |                          |
|-------------------|--------------------------|
| * Adrenal Medulla | * Lymph Node, Mandibular |
|-------------------|--------------------------|

OBSERVATIONS

- |                          |            |                 |          |
|--------------------------|------------|-----------------|----------|
| * Bone Marrow            |            | Hypocellularity | Marked   |
| * Lymph Node, Mesenteric |            | Atrophy         | Mild     |
| * Spleen                 | White Pulp | Atrophy         | Moderate |
| * Thymus                 |            | Atrophy         | Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 491

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 10000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1301036

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Atrophy

Mild

\* Thyroid Gland

C Cell

Adenoma

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Experiment Number: 10188 - 02  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Di(2-ethylhexyl) Phthalate  
 CAS Number: 117-81-7

Date Report Requested: 06/02/2020  
 Time Report Requested: 13:48:37  
 First Dose M/F: 06/27/11 / 06/28/11  
 Lab: BAT

ANIMAL ID: 492

TRT#: 10

SEX: Female

DAY ON TEST: 620

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1301037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Kidney	Papilla	Edema	Mild
	Epithelium, Papilla	Hyperplasia	Minimal
		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Moderate
	Hepatocyte	Eosinophilic Focus	
		Hypertrophy	Mild
		Pigment	Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Polyp Stromal	
		Squamous Metaplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 493

TRT#: 10

SEX: Female

DAY ON TEST: 659

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1301038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Ovary                   | * Pancreas                  | * Pituitary Gland        | * Salivary Glands          |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | Vagina                      |                          |                            |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |               |  |                               |                       |
|---------------|--|-------------------------------|-----------------------|
| * Bone Marrow |  | Hypercellularity              | Moderate              |
| * Kidney      | Papilla                                  | Edema                         | Mild                  |
|               |  | Infarct                       | Minimal               |
|               |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver       | Hepatocyte                               | Cytoplasmic Alteration        | Moderate              |
|               | Hepatocyte                               | Extramedullary Hematopoiesis  | Minimal               |
|               |  | Hypertrophy                   | Mild                  |
| * Lung        |  | Pigment                       | Moderate              |
|               |  | Infiltration Cellular         | Histiocyte, Mild      |
|               |  | Thrombus                      | Minimal               |
|               | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Nose        | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
| * Skin        | Subcut Tiss                              | Sarcoma                       |                       |
|               | [ Sarcoma TGLs = 1 - 18 ]                |                               |                       |
| * Spleen      |  | Extramedullary Hematopoiesis  | Moderate              |
|               |  | Pigment                       | Minimal               |
| * Thymus      |  | Atrophy                       | Moderate              |
| * Uterus      | Endometrium                              | Hyperplasia                   | Cystic, Minimal       |
|               |  | Polyp Stromal                 |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 493

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 659

**DOSE:** 10000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1301038

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Endometrium  
[ Polyp Stromal TGLs = 3 - 17 ]

Squamous Metaplasia

Minimal

---

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 494

TRT#: 10

SEX: Female

DAY ON TEST: 735

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Dilation	Mild
	Papilla	Edema	Mild
* Liver	Hepatocyte	Cytoplasmic Alteration	Moderate
	Hepatocyte	Hypertrophy	Mild
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Thymus		Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 495

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Thyroid Gland
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Glandular
- Vagina

OBSERVATIONS

- \* Adrenal Cortex
  - Degeneration
  - Cystic, Minimal
- \* Bone Marrow
  - Hyperplasia
  - Mild
- \* Kidney
  - Hypercellularity
  - Marked
  - Renal Tubule
  - Cyst
  - Papilla
  - Edema
  - Minimal
  - Epithelium, Papilla
  - Hyperplasia
  - Mild
  - Infarct
  - Minimal
  - Nephropathy
  - Chronicprogr, Moderate
- \* Liver
  - [ Nephropathy TGLs = 3 - 8 ]
  - Angiectasis
  - Moderate
  - Hepatocyte
  - Cytoplasmic Alteration
  - Marked
  - Bile Duct
  - Hyperplasia
  - Nodular, Mild
  - Hepatocyte
  - Hyperplasia
  - Mild
  - Hypertrophy
  - Moderate
  - Pigment
  - Moderate
- \* Lung
  - [ Hyperplasia TGLs = 4-19 ]
  - Infiltration Cellular
  - Histiocyte, Moderate
  - Inflammation
  - Granulomatous, Minimal
- \* Mammary Gland
  - [ Infiltration Cellular TGLs = 5 - 6+7 ]
  - Galactocele
  - Mild
  - [ Galactocele TGLs = 6 - 20 ]
- \* Nose
  - Olfactory Epi
  - Accumulation, Hyaline Droplet
  - Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

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**ANIMAL ID:** 495

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1301040

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Ovary	Bilateral	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Moderate
* Uterus		Schwannoma Malignant	

[ Schwannoma Malignant TGLs = 1 - 18 ]

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Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 496

TRT#: 10

SEX: Female

DAY ON TEST: 685

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1301041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- Vagina
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Salivary Glands
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Mammary Gland
- \* Skin
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Nose
- \* Trachea

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Intestine Large, Colon
- \* Kidney
- \* Liver
- Hepatocyte
- Hepatocyte
- \* Lung
- [ Infiltration Cellular TGLs = 4 - 6+7 ]
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Pancreas
- [ Adenocarcinoma TGLs = 2 - 9 ]
- \* Pituitary Gland
- Skeletal Muscle
- \* Spleen
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Adenocarcinoma
- Nephropathy
- Adenocarcinoma
- Basophilic Focus
- Cytoplasmic Alteration
- Hypertrophy
- Necrosis
- Pigment
- Infiltration Cellular
- Adenocarcinoma
- Adenocarcinoma
- Atrophy
- Adenocarcinoma
- Hyperplasia
- Adenocarcinoma
- Atrophy
- Cystic, Minimal
- Marked
- Minimal
- Metastatic (Uterus)
- Chronicprogr, Minimal
- Metastatic (Uterus)
- Marked
- Mild
- Minimal
- Marked
- Histiocyte, Marked
- Metastatic (Uterus)
- Metastatic (Uterus)
- Moderate
- Metastatic (Uterus)
- Minimal
- Metastatic (Uterus)
- Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 496

TRT#: 10

SEX: Female

DAY ON TEST: 685

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1301041

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Pigment	Moderate
		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Stomach, Glandular		Adenocarcinoma	Metastatic (Uterus)
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Carcinoma	
	[ Carcinoma TGLs = 3 - 11 ]		
* Urinary Bladder		Adenocarcinoma	Metastatic (Uterus)
* Uterus	Endometrium	Adenocarcinoma	
	[ Adenocarcinoma TGLs = 1 - 16+17 ]		

PRIMARY CAUSE OF DEATH - Uterus Endometrium Adenocarcinoma

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**ANIMAL ID:** 497

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 4

**DOSE:** 10000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1301042

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | Blood Vessel             | * Bone                     |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Liver                  | * Lung                     |
| * Mammary Gland           | * Nose                      | * Ovary                  | * Pancreas                 |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    | Vagina                   |                            |

**MISSING**

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

**OBSERVATIONS**

- |                          |                 |          |
|--------------------------|-----------------|----------|
| * Bone Marrow            | Hypocellularity | Marked   |
| * Lymph Node, Mesenteric | Atrophy         | Mild     |
| * Thymus                 | Atrophy         | Moderate |

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 498

TRT#: 10

SEX: Female

DAY ON TEST: 3

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1301043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Bone
- \* Skin
- \* Eye
- \* Harderian Gland
- \* Nose

MISSING

- \* Adrenal Cortex
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Ovary
- \* Salivary Glands
- \* Thymus
- \* Uterus
- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Spleen
- \* Thyroid Gland
- Vagina
- Blood Vessel
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Trachea
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Liver
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
- Hypocellularity
- Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 499

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1301044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Harderian Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- \* Vagina

OBSERVATIONS

- \* Bone Marrow
  - \* Eye
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Mammary Gland
  - \* Nose
  - \* Ovary
  - \* Spleen
  - \* Thymus
  - \* Uterus
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- Hypercellularity
  - Mild
  - Lens
  - Cataract
  - Mild
  - Cardiomyopathy
  - Minimal
  - Nephropathy
  - Chronicprogr, Minimal
  - Clear Cell Focus
  - Hepatocyte
  - Cytoplasmic Alteration
  - Mild
  - Hepatocyte
  - Hypertrophy
  - Moderate
  - Pigment
  - Mild
  - Infiltration Cellular
  - Histiocyte, Mild
  - Inflammation
  - Granulomatous, Minimal
  - Hyperplasia
  - Minimal
  - Accumulation, Hyaline Droplet
  - Mild
  - Cyst
  - Extramedullary Hematopoiesis
  - Mild
  - Pigment
  - Minimal
  - Atrophy
  - Mild
  - Atypical Hyperplasia
  - Moderate
  - Hyperplasia
  - Cystic, Moderate
  - Polyp Stromal

[ Hyperplasia TGLs = 2 - 16+17 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 06/02/2020

Time Report Requested: 13:48:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

ANIMAL ID: 500

TRT#: 10

SEX: Female

DAY ON TEST: 718

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1301045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Skin
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Stomach, Glandular
- Vagina
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Thyroid Gland
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Salivary Glands
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex
  - \* Bone Marrow
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Lymph Node, Mesenteric
  - Mesentery
- [ Angiectasis TGLs = 8 - 19 ]  
 [ Eosinophilic Focus TGLs = 7 - 19 ]
- [ Infiltration Cellular TGLs = 5 - 6+7 ]  
 [ Adenocarcinoma TGLs = 3 - 20 ]
- Adenocarcinoma
  - Hypercellularity
  - Edema
  - Hyperplasia
  - Nephropathy
  - Adenocarcinoma
  - Angiectasis
  - Basophilic Focus
  - Cytoplasmic Alteration
  - Eosinophilic Focus
  - Extramedullary Hematopoiesis
  - Hyperplasia
  - Pigment
  - Metastatic (Uterus)
  - Moderate
  - Minimal
  - Minimal
  - Chronicprogr, Mild
  - Metastatic (Uterus)
  - Mild
  - Minimal
  - Minimal
  - Minimal
  - Mild
  - Metastatic (Uterus)
  - Infiltration Cellular
  - Inflammation
  - Granulomatous, Minimal
  - Adenocarcinoma
  - Adenocarcinoma
  - Metastatic (Uterus)
  - Metastatic (Uterus)

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

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ANIMAL ID: 500

TRT#: 10

SEX: Female

DAY ON TEST: 718

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1301045

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Ovary	Bilateral	Adenocarcinoma	Metastatic (Uterus)
* Pancreas		Adenocarcinoma	Metastatic (Uterus)
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 6 - 11 ]		
Skeletal Muscle		Adenocarcinoma	Metastatic (Uterus)
	[ Adenocarcinoma TGLs = 4 - 21 ]		
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Ulcer	Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Adenocarcinoma	
	[ Adenocarcinoma TGLs = 2 - 18 ]		

PRIMARY CAUSE OF DEATH - Uterus Endometrium Adenocarcinoma

\*\*\* END OF REPORT \*\*\*