

**Experiment Number:** 10188 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

**NTP Study Number:** C10188B  
**Lock Date:** 04/01/2015  
**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: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* 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	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla [ Hyperplasia TGLs = 3 - 11 ]		Hyperplasia	Focal, Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney [ Nephropathy TGLs = 2 - 8 ]		Nephropathy	Chronicprogr, Marked
* Liver		Clear Cell Focus	
* Lung [ Infiltration Cellular TGLs = 4 - 6+7 ]		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Parathyroid Gland		Hyperplasia	Diffuse, Mild
* Pituitary Gland [ Adenoma TGLs = 5 - 11 ]	Pars Intermed Pars Distalis	Adenoma Hyperplasia	Moderate
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith Bilateral	Degeneration	Minimal
		Polyarteritis Nodosa	Mild
* Thymus [ Lymphoma Malignant TGLs = 1 - 18 ]		Lymphoma Malignant	
* Thyroid Gland	C Cell	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300003

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, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Lung
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Parathyroid Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Brain
- Granular Cell Tumor Benign
- \* Intestine Large, Colon
- Hyperplasia
- Lymphocyte, Moderate
- \* Islets, Pancreatic
- Adenoma
- \* Kidney
- Nephropathy
- Chronicprogr, Mild
- \* Liver
- Clear Cell Focus
- \* Lymph Node, Mandibular
- Bile Duct
- Hyperplasia
- Minimal
- Inflammation
- Chronic, Minimal
- Necrosis
- Mild
- [ Necrosis TGLs = 1 - 12 ]
- \* Pancreas
- Basophilic Focus
- Acinus
- Hyperplasia
- Moderate
- Pars Distalis
- Hyperplasia
- Minimal
- Pigment
- Cholesterol, Minimal
- Metaplasia
- Squamous, Moderate
- Note: TGL-2 (cyst) may involve preputial gland duct.
- [ Metaplasia TGLs = 2 - 20 ]
- \* Spleen
- Extramedullary Hematopoiesis
- Mild
- Pigment
- Mild
- \* Testis
- Bilateral, Germinal Epith
- Degeneration
- Minimal
- Bilateral
- Edema
- Minimal
- Polyarteritis Nodosa
- Mild

\* PROTOCOL REQUIRED TISSUE

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Lab: BAT

---

**ANIMAL ID:** 3

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300003

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Atrophy

Moderate

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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Lab: BAT

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300004

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, 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          |                           |

OBSERVATIONS

- |                          |                           |                               |                     |
|--------------------------|---------------------------|-------------------------------|---------------------|
| * Heart                  |                           | Cardiomyopathy                | Minimal             |
| * Intestine Large, Colon |                           | Hyperplasia                   | Lymphocyte, Mild    |
| * Kidney                 |                           | Infarct                       | Minimal             |
|                          |                           | Nephropathy                   | Chronicprogr, Mild  |
| * Liver                  |                           | Basophilic Focus              |                     |
|                          |                           | Clear Cell Focus              |                     |
|                          | Bile Duct                 | Hyperplasia                   | Minimal             |
| * Lung                   |                           | Infiltration Cellular         | Histiocyte, Minimal |
| * Nose                   |                           | Accumulation, Hyaline Droplet | Minimal             |
| * Pituitary Gland        | Olfactory Epi             | Hyperplasia                   | Mild                |
| * Spleen                 | Pars Distalis             | Extramedullary Hematopoiesis  | Mild                |
|                          |                           | Pigment                       | Minimal             |
| * Testis                 | Bilateral, Germinal Epith | Degeneration                  | Mild                |
|                          |                           | Edema                         | Mild                |
| * Thymus                 |                           | Atrophy                       | Mild                |

\* PROTOCOL REQUIRED TISSUE

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Lab: BAT

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300005

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                | * Pituitary Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Trachea                 | * Urinary Bladder           |                          |                            |

MISSING

- \* Preputial Gland

OBSERVATIONS

- |                     |                             |                               |                        |
|---------------------|-----------------------------|-------------------------------|------------------------|
| * Heart             |                             | Cardiomyopathy                | Mild                   |
| * Kidney            |                             | Nephropathy                   | Chronicprogr, Moderate |
| * Liver             |                             | Clear Cell Focus              |                        |
|                     |                             | Degeneration                  | Cystic, Minimal        |
| * Lung              | Serosa                      | Fibrosis                      | Minimal                |
|                     |                             | Infiltration Cellular         | Histiocyte, Minimal    |
|                     |                             | Inflammation                  | Granulomatous, Minimal |
|                     | [ Fibrosis TGLs = 1 - 6+7 ] |                               |                        |
| * Nose              | Olfactory Epi               | Accumulation, Hyaline Droplet | Mild                   |
| * Parathyroid Gland |                             | Hyperplasia                   | Diffuse, Mild          |
| * Spleen            |                             | Extramedullary Hematopoiesis  | Mild                   |
|                     |                             | Pigment                       | Minimal                |
| * Testis            | Interstit Cell              | Adenoma                       |                        |
|                     | Bilateral, Germinal Epith   | Degeneration                  | Minimal                |
|                     |                             | Edema                         | Minimal                |
| * Thymus            |                             | Atrophy                       | Minimal                |
| * Thyroid Gland     | C Cell                      | Adenoma                       |                        |
|                     | C Cell                      | Hyperplasia                   | Minimal                |

\* PROTOCOL REQUIRED TISSUE

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Lab: BAT

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 488

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300006

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
- \* 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

OBSERVATIONS

- \* Bone Marrow
  - \* Kidney
  - \* Lung
  - \* Nose
  - \* Skin
  - \* Spleen
  - \* Thymus
- [ Fibroma TGLs = 1 - 18 ]
- Hypercellularity
  - Mild
  - Nephropathy
  - Chronicprogr, Minimal
  - Infiltration Cellular
  - Histiocyte, Minimal
  - Accumulation, Hyaline Droplet
  - Mild
  - Fibroma
  - Extramedullary Hematopoiesis
  - Mild
  - Pigment
  - Minimal
  - Atrophy
  - Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma



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Lab: BAT

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Thymus

OBSERVATIONS

- |                                |                             |                               |                      |
|--------------------------------|-----------------------------|-------------------------------|----------------------|
| * Epididymis                   | Bilateral                   | Hypospermia                   | Marked               |
| * Eye                          | Cornea                      | Inflammation                  | Chronic Active, Mild |
| [ Inflammation TGLs = 1 - 13 ] |                             |                               |                      |
| * Heart                        |                             | Cardiomyopathy                | Minimal              |
| * Intestine Large, Rectum      |                             | Parasite Metazoan             |                      |
| * Kidney                       |                             | Nephropathy                   | Chronicprogr, Mild   |
| * Liver                        |                             | Clear Cell Focus              |                      |
| * Nose                         | Olfactory Epi               | Accumulation, Hyaline Droplet | Moderate             |
| * Pancreas                     |                             | Polyarteritis Nodosa          | Mild                 |
| * Parathyroid Gland            |                             | Hyperplasia                   | Diffuse, Mild        |
| * Pituitary Gland              | Pars Distalis               | Adenoma                       |                      |
| [ Adenoma TGLs = 2 - 11 ]      |                             |                               |                      |
| * Prostate                     | Dorsal, Epithelium, Lateral | Hyperplasia                   | Minimal              |
| * Spleen                       |                             | Extramedullary Hematopoiesis  | Mild                 |
|                                |                             | Pigment                       | Mild                 |
| * Testis                       | Bilateral, Germinal Epith   | Degeneration                  | Marked               |
|                                | Bilateral                   | Edema                         | Moderate             |
|                                |                             | Granuloma Sperm               | Moderate             |
|                                | Bilateral                   | Polyarteritis Nodosa          | Marked               |

\* PROTOCOL REQUIRED TISSUE



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Lab: BAT

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ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300008

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ORGAN AND ACCOUNTABLE SITE STATUS

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Mesothelioma Malignant

[ Degeneration TGLs = 5 - 16+17 ]

Atrophy

Minimal

\* Thymus

Adenoma

\* Thyroid Gland

C Cell

Carcinoma

C Cell

[ Carcinoma TGLs = 4-21 ]

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Lab: BAT

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300009

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	* Lung	* 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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Jejunum	Peyers Patch	Hyperplasia	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Cyst Epithelial Inclusion	
		Inflammation	Chronic Active, Marked
	Subcut Tiss	Lipoma	
	[ Cyst Epithelial Inclusion TGLs = 1 - 19 ]		
	[ Inflammation TGLs = 2 - 20 ]		
	[ Lipoma TGLs = 3 - 21 ]		
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Testis	Interstitial Cell	Adenoma	
	Bilateral	Edema	Minimal
* Thymus		Atrophy	Mild
		Ectopic Parathyroid Gland	Minimal

\* PROTOCOL REQUIRED TISSUE

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Lab: BAT

---

**ANIMAL ID:** 9

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300009

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Hyperplasia

Minimal

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Experiment Number: 10188 - 01

Test Type: CHRONIC

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Species/Strain: RATS/HSD

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Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 697

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300010

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 | * Islets, Pancreatic     | * Lung                    | * Lymph Node, Mandibular    |
| * Mammary Gland          | * Nose                   | * Pancreas                | * Parathyroid Gland         |
| * Preputial Gland        | * Prostate               | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Glandular     | * Trachea                 | * Urinary Bladder           |

OBSERVATIONS

- |                            |                                  |                              |                                       |
|----------------------------|----------------------------------|------------------------------|---------------------------------------|
| * Adrenal Medulla          |                                  | Hyperplasia                  | Focal, Mild                           |
| * Bone Marrow              |                                  | Hypercellularity             | Marked                                |
| * Heart                    |                                  | Cardiomyopathy               | Mild                                  |
| * Intestine Small, Jejunum |                                  | Adenocarcinoma               |                                       |
|                            | [ Adenocarcinoma TGLs = 1 - 18 ] |                              |                                       |
| * Kidney                   |                                  | Nephropathy                  | Chronicprogr, Moderate                |
| * Liver                    |                                  | Adenocarcinoma               | Metastatic (Intestine Small, Jejunum) |
|                            |                                  | Clear Cell Focus             |                                       |
|                            |                                  | Extramedullary Hematopoiesis | Minimal                               |
|                            | [ Adenocarcinoma TGLs = 2 - 19 ] |                              |                                       |
| * Lymph Node, Mesenteric   |                                  | Adenocarcinoma               | Metastatic (Intestine Small, Jejunum) |
|                            |                                  | Dilation                     | Mild                                  |
|                            |                                  | Infiltration Cellular        | Plasma Cell, Mild                     |
|                            | [ Adenocarcinoma TGLs = 3 - 20 ] |                              |                                       |
| * Pancreas                 |                                  |                              |                                       |
|                            | Note: In B20 as part of TGL-3.   |                              |                                       |
| * Pituitary Gland          | Pars Distalis                    | Hyperplasia                  | Minimal                               |
| * Spleen                   |                                  | Extramedullary Hematopoiesis | Moderate                              |
| * Stomach, Forestomach     | Epithelium                       | Hyperplasia                  | Moderate                              |
|                            | [ Hyperplasia TGLs = 4 - 21 ]    |                              |                                       |
| * Testis                   | Bilateral, Germinal Epith        | Degeneration                 | Minimal                               |
| * Thymus                   |                                  | Atrophy                      | Mild                                  |

\* PROTOCOL REQUIRED TISSUE

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Lab: BAT

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**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 697

**DOSE:** 0 ppm Male

**DISP:** Natural Death

**HISTO:** 1300010

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Adenoma

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PRIMARY CAUSE OF DEATH

- Intestine Small, Jejunum Adenocarcinoma

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Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

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First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 735

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Bone Marrow            | * Epididymis               | * Esophagus               | * Eye                       |
| * 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          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |                             |

OBSERVATIONS

- |  |                |                               |                        |
|--|----------------|-------------------------------|------------------------|
| * Brain                                  |                | Glioma Malignant              |                        |
| Note: Microglial tumor.                  |                |                               |                        |
| * Harderian Gland                        |                | Hyperplasia                   | Mild                   |
| * Heart                                  |                | Cardiomyopathy                | Mild                   |
| * Kidney                                 |                | Nephropathy                   | Chronicprogr, Moderate |
| * Lung                                   |                | Infiltration Cellular         | Histiocyte, Moderate   |
| [ Infiltration Cellular TGLs = 1 - 6+7 ] |                |                               |                        |
| * Nose                                   | Olfactory Epi  | Accumulation, Hyaline Droplet | Mild                   |
| * Spleen                                 |                | Extramedullary Hematopoiesis  | Minimal                |
|  |                | Pigment                       | Mild                   |
| * Testis                                 | Germinal Epith | Degeneration                  | Minimal                |
|  | Bilateral      | Polyarteritis Nodosa          | Mild                   |
| * Thymus                                 |                | Atrophy                       | Minimal                |
| * Thyroid Gland                          | C Cell         | Hyperplasia                   | Mild                   |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 735

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300012

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         | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

OBSERVATIONS

- |                   |  |                               |                         |
|-------------------|--|-------------------------------|-------------------------|
| * 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 | Minimal                 |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal                 |
| * Prostate        | Dorsal, Lateral                          | Inflammation                  | Chronic Active, Minimal |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                    |
|                   |  | Pigment                       | Minimal                 |
| * Testis          | Bilateral, Germinal Epith                | Degeneration                  | Minimal                 |
| * Thymus          |  | Atrophy                       | Minimal                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * 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      | * Lung                      |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                          |                              |                               |                        |
|--------------------------|------------------------------|-------------------------------|------------------------|
| * Epididymis             | Bilateral, Duct              | Exfoliated Germ Cell          | Mild                   |
|                          | Bilateral                    | Hypospermia                   | Marked                 |
| * Eye                    | Cornea                       | Inflammation                  | Chronic Active, Mild   |
| * Heart                  |                              | Cardiomyopathy                | Mild                   |
| * Kidney                 |                              | Nephropathy                   | Chronicprogr, Moderate |
| * Liver                  |                              | Clear Cell Focus              |                        |
|                          |                              | Hemangioma                    |                        |
|                          | [ Hemangioma TGLs = 3 - 19 ] |                               |                        |
| * Lymph Node, Mandibular |                              | Dilation                      | Mild                   |
|                          |                              | Infiltration Cellular         | Plasma Cell, Mild      |
|                          | [ Dilation TGLs = 1 - 12 ]   |                               |                        |
| * Nose                   | Olfactory Epi                | Accumulation, Hyaline Droplet | Mild                   |
| * Pituitary Gland        | Pars Distalis                | Hyperplasia                   | Mild                   |
|                          | Pars Distalis                | Hypertrophy                   | Minimal                |
| * Spleen                 |                              | Extramedullary Hematopoiesis  | Mild                   |
|                          |                              | Pigment                       | Mild                   |
| * Testis                 | Bilateral, Germinal Epith    | Degeneration                  | Marked                 |
|                          | Bilateral                    | Edema                         | Moderate               |
|                          | Bilateral                    | Polyarteritis Nodosa          | Marked                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

---

**ANIMAL ID:** 13

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300013

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

Bilateral, C Cell

Adenoma

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 446

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Mammary Gland
- \* Nose
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Salivary Glands
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Thymus

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin

OBSERVATIONS

- \* Adrenal Cortex
- Blood Vessel
- Aorta
- Mineral
- Mineral
- Minimal
- Moderate
- Note: Other vessels also involved (e.g., pulmonary, salivary).
- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Kidney
- Bilateral
- Hypercellularity
- Inflammation
- Cardiomyopathy
- Inflammation
- Mineral
- Moderate
- Suppurative, Mild
- Minimal
- Suppurative, Marked
- Marked
- [ Inflammation TGLs = 4- 20 ]
- \* Liver
- Angiectasis
- Fibrosis
- Mild
- Mild
- [ Fibrosis TGLs = 3 - 19 ]
- \* Lung
- \* Prostate
- \* Seminal Vesicle
- \* Skin
- Mineral
- Inflammation
- Inflammation
- Marked
- Suppurative, Marked
- Suppurative, Moderate
- Note: TGL-1 = too autolysed to see a lesion.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 446

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300014

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Spleen		Pigment	Mild
* Stomach, Forestomach		Mineral	Minimal
* Stomach, Glandular		Mineral	Marked
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
[ Degeneration TGLs = 5 - 16 ]			

---

PRIMARY CAUSE OF DEATH - Kidney Inflammation

CONTRIBUTORY CAUSE OF DEATH - Prostate Inflammation

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Heart
- \* Kidney
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- Olfactory Epi
- Pars Distalis
- Bilateral, Germinal Epith
- Bilateral
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Polyarteritis Nodosa
- Atrophy
- Mild
- Chronicprogr, Mild
- Histiocyte, Mild
- Mild
- Minimal
- Mild
- Mild
- Minimal
- Minimal
- Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 556

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300016

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
- \* Nose
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Bone Marrow Hypercellularity Marked
- \* Epididymis Bilateral, Duct Exfoliated Germ Cell Mild
- \* Kidney Lymphoma Malignant
- Nephropathy Chronicprogr, Mild
- \* Liver Lymphoma Malignant
- \* Lung Lymphoma Malignant
- Lymph Node Mediastinal Lymphoma Malignant
- Pancreatic Lymphoma Malignant
- Lumbar Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 4 - 21 ]
- [ Lymphoma Malignant TGLs = 6 - 19 ]
- [ Lymphoma Malignant TGLs = 8 - 20 ]
- \* Lymph Node, Mandibular Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 2 - 18 ]
- \* Lymph Node, Mesenteric Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 7 - 24 ]
- \* Mammary Gland Lymphoma Malignant
- \* Pancreas Lymphoma Malignant
- \* Preputial Gland Inflammation Chronic Active, Moderate
- [ Inflammation TGLs = 3 - 22 ]
- \* Prostate Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 556

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300016

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Lymphoma Malignant	
[ Lymphoma Malignant	TGLs = 1 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Lymphoma Malignant	
[ Lymphoma Malignant	TGLs = 5 - 23 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Salivary Glands Lymphoma Malignant



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 653

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Medulla [ Pheochromocytoma Benign TGLs = 1 - 11 ] Bilateral Pheochromocytoma Benign
- \* Brain Glioma Malignant
- \* Heart Cardiomyopathy Mild
- Intestine Large, Cecum Polyarteritis Nodosa Minimal
- \* Kidney Nephropathy Chronicprogr, Marked
- Intestine Large, Cecum [ Nephropathy TGLs = 5 - 8+21 ]
- \* Lung Infiltration Cellular Histiocyte, Minimal
- \* Lymph Node, Mesenteric Dilation Mild
- Mesentery Infiltration Cellular Plasma Cell, Moderate
- \* Pancreas Acinus Polyarteritis Nodosa Moderate
- Acinus Atrophy Moderate
- Acinus Hyperplasia Mild
- \* Parathyroid Gland Polyarteritis Nodosa Moderate
- \* Skin Hyperplasia Diffuse, Mild
- [ Cyst Epithelial Inclusion TGLs = 2,3 - 18+19 ] Cyst Epithelial Inclusion
- \* Spleen Extramedullary Hematopoiesis Mild
- \* Testis Bilateral, Germinal Epith Degeneration Mild
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

---

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 653

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300017

---

ORGAN AND ACCOUNTABLE SITE STATUS

---

* Thymus	Bilateral	Polyarteritis Nodosa	Mild
		Atrophy	Mild

---

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

---

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300018

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, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Infiltration Cellular	Mononuclear CI, Mild
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
		Inflammation	Focal, Minimal
* Lung		Inflammation	Granulomatous, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Minimal
	[ Infiltration Cellular TGLs = 1 - 12 ]		
* Pancreas		Polyarteritis Nodosa	Mild
* Parathyroid Gland	Bilateral	Hyperplasia	Diffuse, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Mild

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 663

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300019

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      |
| * 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        |                            |                           |

OBSERVATIONS

- |                          |                           |                               |                        |
|--------------------------|---------------------------|-------------------------------|------------------------|
| * Brain                  |                           | Glioma Malignant              |                        |
| Note: Microglial tumor.  |                           |                               |                        |
| * Heart                  |                           | Cardiomyopathy                | Mild                   |
| * Kidney                 |                           | Nephropathy                   | Chronicprogr, Moderate |
| * Liver                  |                           | Clear Cell Focus              |                        |
| * Lung                   |                           | Infiltration Cellular         | Histiocyte, Minimal    |
| * Lymph Node, Mandibular |                           | Infiltration Cellular         | Plasma Cell, Mild      |
| * Nose                   | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal                |
| * Pituitary Gland        | Pars Distalis             | Hyperplasia                   | Minimal                |
| * Spleen                 |                           | Extramedullary Hematopoiesis  | Mild                   |
|                          |                           | Pigment                       | Minimal                |
| * Testis                 | Bilateral, Germinal Epith | Degeneration                  | Minimal                |
|                          | Bilateral                 | Edema                         | Minimal                |
|                          | Bilateral                 | Polyarteritis Nodosa          | Mild                   |
| * Thymus                 |                           | Atrophy                       | Moderate               |

PRIMARY CAUSE OF DEATH - Brain Glioma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 625

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300020

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
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- Blood Vessel
- Mineral
- Minimal
- \* Bone Marrow
- Hypercellularity
- Mild
- \* Epididymis
- Bilateral
- Hypospermia
- Marked
- \* Heart
- Cardiomyopathy
- Moderate
- \* Kidney
- Nephropathy
- Chronicprogr, Marked
- [ Nephropathy TGLs = 1 - 20 ]
- \* Liver
- Eosinophilic Focus
- \* Parathyroid Gland
- Bilateral
- Hyperplasia
- Diffuse, Moderate
- \* Spleen
- Extramedullary Hematopoiesis
- Moderate
- \* Stomach, Glandular
- Mineral
- Mild
- \* Testis
- Bilateral, Germinal Epith
- Degeneration
- Moderate
- Bilateral
- Polyarteritis Nodosa
- Moderate
- \* Thymus
- Atrophy
- Marked
- Polyarteritis Nodosa
- Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 691

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300021

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	* Liver
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
	[ Pheochromocytoma Benign TGLs = 3 - 11 ]		
* Bone Marrow		Hypercellularity	Marked
* Heart	Valve	Fibrosis	Mild
		Schwannoma Malignant	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphocyte, Marked
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Subcut Tiss	Lipoma	
	[ Lipoma TGLs = 1 - 18 ]		
* Spleen		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Moderate
		Edema	Mild
	[ Degeneration TGLs = 2 - 16 ]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Heart Schwannoma Malignant  
 CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Lipoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300022

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
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow      Hypercellularity      Mild
- \* Heart      Cardiomyopathy      Mild
- \* Intestine Large, Rectum      Parasite Metazoan
- \* Kidney      Nephropathy      Chronicprogr, Moderate
- \* Liver      Clear Cell Focus
- Degeneration      Cystic, Minimal
- \* Lung      Infiltration Cellular      Histiocyte, Minimal
- \* Nose      Olfactory Epi      Accumulation, Hyaline Droplet      Moderate
- \* Pancreas      Polyarteritis Nodosa      Mild
- \* Pituitary Gland      Pars Distalis      Hyperplasia      Minimal
- Pars Distalis      Hypertrophy      Minimal
- \* Skin      Subcut Tiss      Fibroma
- Keratoacanthoma
- [ Fibroma TGLs = 1 - 19 ]
- [ Keratoacanthoma TGLs = 2 - 20 ]
- \* Spleen      Extramedullary Hematopoiesis      Mild
- Pigment      Mild
- \* Testis      Interstit Cell
- Bilateral, Germinal Epith      Adenoma
- Bilateral      Degeneration      Minimal
- Bilateral      Edema      Minimal
- Polyarteritis Nodosa      Mild
- \* Thymus      Atrophy      Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 271

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300023

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, Jejunum | * Islets, Pancreatic     | * Liver                   |
| * 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          |                          |                           |

AUTO PRECLUDES DIAG.

- \* Intestine Small, Ileum

OBSERVATIONS

- |               |               |                               |                       |
|---------------|---------------|-------------------------------|-----------------------|
| * Bone Marrow |               | Hypercellularity              | Minimal               |
| * Heart       |               | Cardiomyopathy                | Minimal               |
| * Kidney      |               | Nephropathy                   | Chronicprogr, Minimal |
| * Nose        | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal               |
| * Spleen      |               | Extramedullary Hematopoiesis  | Minimal               |
| * Thymus      |               | Atrophy                       | Mild                  |

Note: Thymic "atrophy" includes acute necrosis with or without hemorrhage.

PRIMARY CAUSE OF DEATH

- UNCERTAIN



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300024

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, Mesenteric	* Mammary Gland	* Pancreas	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Minimal
* Lymph Node, Mandibular		Dilation	Mild
	[ Dilation TGLs = 1 - 12 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium, Ventral	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Mild
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 735

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Bone Marrow               |
| * Brain                  | * Epididymis               | * Esophagus               | * Eye                       |
| * 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        |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

OBSERVATIONS

- |                   |                              |                               |                        |
|-------------------|------------------------------|-------------------------------|------------------------|
| * Adrenal Cortex  |                              | Adenoma                       |                        |
|                   |                              | Atypia Cellular               | Minimal                |
|                   | [ Adenoma TGLs = 1 - 11 ]    |                               |                        |
| * Harderian Gland |                              | Metaplasia                    | Mild                   |
| * Heart           |                              | Cardiomyopathy                | Minimal                |
| * Kidney          |                              | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |                              | Clear Cell Focus              |                        |
| * Nose            | Olfactory Epi                | Accumulation, Hyaline Droplet | Minimal                |
| * Pituitary Gland | Pars Distalis                | Hypertrophy                   | Minimal                |
| * Spleen          |                              | Extramedullary Hematopoiesis  | Mild                   |
| * Testis          | Bilateral, Interstit Cell    | Adenoma                       |                        |
|                   | Germinal Epith               | Degeneration                  | Moderate               |
|                   |                              | Edema                         | Mild                   |
|                   | Bilateral                    | Polyarteritis Nodosa          | Mild                   |
| * Thymus          |                              | Hyperplasia                   | Lymphocyte, Moderate   |
|                   |                              | Infiltration Cellular         | Lipocyte, Mild         |
|                   | [ Hyperplasia TGLs = 2 - 6 ] |                               |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 735

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Heart
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Nose
- \* Prostate
- \* Spleen
- \* Stomach, Glandular
- \* Testis
- \* Thymus
- Hypertrophy
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Cyst
- Edema
- Polyarteritis Nodosa
- Atrophy
- Focal, Mild
- Mild
- Chronicprogr, Moderate
- Histiocyte, Moderate
- Mild
- Minimal
- Mild
- Mild
- Squamous
- Minimal
- Mild
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300027

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   | * Mammary Gland           | * Nose                      |
| * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

OBSERVATIONS

- |                   |                                    |                              |                        |
|-------------------|------------------------------------|------------------------------|------------------------|
| * Adrenal Cortex  |                                    | Hypertrophy                  | Focal, Mild            |
| * Adrenal Medulla |                                    | Hyperplasia                  | Focal, Minimal         |
| * Heart           |                                    | Cardiomyopathy               | Mild                   |
| * Kidney          |                                    | Infarct                      | Minimal                |
|                   |                                    | Nephropathy                  | Chronicprogr, Moderate |
| * Liver           |                                    | Clear Cell Focus             |                        |
|                   | Bile Duct                          | Cyst                         |                        |
|                   |                                    | Mixed Cell Focus             |                        |
|                   | [ Cyst TGLs = 3 - 21 ]             |                              |                        |
|                   | [ Mixed Cell Focus TGLs = 2 - 20 ] |                              |                        |
| * Preputial Gland |                                    | Carcinoma                    |                        |
|                   | [ Carcinoma TGLs = 1 - 19 ]        |                              |                        |
| * Prostate        |                                    | Hyperplasia                  | Minimal                |
| * Spleen          |                                    | Extramedullary Hematopoiesis | Mild                   |
|                   |                                    | Pigment                      | Minimal                |
| * Testis          | Bilateral                          | Edema                        | Minimal                |
|                   | Bilateral                          | Polyarteritis Nodosa         | Minimal                |
| * Thymus          |                                    | Atrophy                      | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| Blood Vessel               | * Bone                   | * Brain                     | * Esophagus              |
| * Eye                      | * Harderian Gland        | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mandibular | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Parathyroid Gland        | * Preputial Gland        | * Salivary Glands           | * Skin                   |
| * Stomach, Forestomach     | * Stomach, Glandular     | * Trachea                   |                          |

OBSERVATIONS

- |                           |  |                               |                              |
|---------------------------|--|-------------------------------|------------------------------|
| * Adrenal Cortex          |  | Hyperplasia                   | Mild                         |
| * Adrenal Medulla         |  | Mesothelioma Malignant        |                              |
|                           |  | Hyperplasia                   | Focal, Minimal               |
|                           | [ Pheochromocytoma Malignant TGLs = 1 - 18 ] | Pheochromocytoma Malignant    |                              |
| * Bone Marrow             |  | Hypercellularity              | Mild                         |
| * Epididymis              |  | Mesothelioma Malignant        |                              |
|                           | [ Mesothelioma Malignant TGLs = 2 - 14 ]     |                               |                              |
| * Heart                   |  | Cardiomyopathy                | Mild                         |
|                           |  | Polyarteritis Nodosa          | Mild                         |
| * Intestine Large, Cecum  |  | Polyarteritis Nodosa          | Mild                         |
| * Intestine Large, Colon  |  | Polyarteritis Nodosa          | Mild                         |
| * Intestine Large, Rectum |  | Polyarteritis Nodosa          | Mild                         |
| * Islets, Pancreatic      |  | Hyperplasia                   | Moderate                     |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Moderate       |
| * Liver                   |  | Clear Cell Focus              |                              |
|                           |  | Polyarteritis Nodosa          | Minimal                      |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Minimal          |
|                           |  | Pheochromocytoma Malignant    | Metastatic (Adrenal Medulla) |
| Mesentery                 |  | Mesothelioma Malignant        |                              |
|                           |  | Polyarteritis Nodosa          | Mild                         |
| * Nose                    | Olfactory Epi                                | Accumulation, Hyaline Droplet | Minimal                      |
| * Pancreas                | Acinus                                       | Atrophy                       | Minimal                      |
|                           |  | Mesothelioma Malignant        |                              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300028

ORGAN AND ACCOUNTABLE SITE STATUS

Peritoneum		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Prostate		Adenoma	
		Mesothelioma Malignant	
* Seminal Vesicle		Mesothelioma Malignant	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Edema	Minimal
		Mesothelioma Malignant	
* Thymus	Bilateral	Polyarteritis Nodosa	Minimal
		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate
* Urinary Bladder		Mesothelioma Malignant	



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300030

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     | * Liver                     |
| * 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          |                          |                             |

OBSERVATIONS

- |                           |               |                               |                    |
|---------------------------|---------------|-------------------------------|--------------------|
| * Bone Marrow             |               | Hypercellularity              | Mild               |
| * Heart                   |               | Cardiomyopathy                | Minimal            |
|                           |               | Schwannoma Malignant          |                    |
| * Intestine Large, Rectum |               | Parasite Metazoan             |                    |
| * Kidney                  |               | Nephropathy                   | Chronicprogr, Mild |
| * Lung                    |               | Inflammation                  | Acute, Minimal     |
| * Nose                    | Olfactory Epi | Accumulation, Hyaline Droplet | Mild               |
| * Pituitary Gland         | Pars Distalis | Hyperplasia                   | Minimal            |
| * Spleen                  |               | Extramedullary Hematopoiesis  | Mild               |
|                           |               | Pigment                       | Mild               |
| * Testis                  | Bilateral     | Edema                         | Minimal            |
| * Thymus                  |               | Atrophy                       | Mild               |
| * Thyroid Gland           | C Cell        | Adenoma                       |                    |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 735

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300031

**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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Pancreas	Duct	Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral	Edema	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
* Trachea		Inflammation	Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 689

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* 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

OBSERVATIONS

- \* Bone Marrow
  - \* Brain
  - \* Epididymis
  - \* Heart
  - \* Intestine Large, Cecum
  - \* Intestine Large, Rectum
  - \* Kidney
  - \* Liver
  - \* Nose
  - \* Pituitary Gland
  - \* Spleen
  - \* Testis
  - \* Thymus
- Neuron
- Pars Distalis
- Bilateral, Germinal Epith
- Bilateral
- Hypercellularity
  - Necrosis
  - Polyarteritis Nodosa
  - Cardiomyopathy
  - Polyarteritis Nodosa
  - Parasite Metazoan
  - Nephropathy
  - Basophilic Focus
  - Inflammation
  - Adenoma
  - Extramedullary Hematopoiesis
  - Pigment
  - Degeneration
  - Polyarteritis Nodosa
  - Atrophy
- Mild
  - Mild
  - Minimal
  - Moderate
  - Minimal
  - Chronicprogr, Marked
  - Chronic Active, Minimal
  - Mild
  - Moderate
  - Minimal
  - Mild
  - Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH - Heart Cardiomyopathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 497

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300033

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           |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Testis                   | * Thyroid Gland           |
| * Urinary Bladder           |                          |                            |                           |

OBSERVATIONS

- |                   |               |                              |                     |
|-------------------|---------------|------------------------------|---------------------|
| * Bone Marrow     |               | Hypercellularity             | Mild                |
| * Heart           |               | Cardiomyopathy               | Minimal             |
| * Kidney          |               | Nephropathy                  | Chronicprogr, Mild  |
| * Lung            |               | Infiltration Cellular        | Histiocyte, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia                  | Moderate            |
| * Spleen          |               | Extramedullary Hematopoiesis | Mild                |
|                   |               | Pigment                      | Moderate            |
| * Thymus          |               | Atrophy                      | Moderate            |
| * Trachea         |               | Inflammation                 | Chronic, Minimal    |

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * 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           | * Parathyroid Gland         |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           |

OBSERVATIONS

- |                          |   |                               |                        |
|--------------------------|---|-------------------------------|------------------------|
| * Adrenal Cortex         |   | Hyperplasia                   | Minimal                |
| * Bone Marrow            |   | Hypercellularity              | Minimal                |
| * Brain                  |   | Granular Cell Tumor Benign    |                        |
| * Epididymis             | Bilateral                                   | Hypospermia                   | Moderate               |
| * Eye                    | Retina                                      | Degeneration                  | Mild                   |
| * Heart                  |   | Cardiomyopathy                | Minimal                |
| * Intestine Large, Cecum |   | Polyarteritis Nodosa          | Mild                   |
| * Kidney                 |   | Nephropathy                   | Chronicprogr, Moderate |
|                          | Urothelium                                  | Polyp Adenomatous             |                        |
| * Lung                   |   | Infiltration Cellular         | Histiocyte, Minimal    |
| * Nose                   | Respirat Epith                              | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas               |   | Polyarteritis Nodosa          | Mild                   |
| * Pituitary Gland        | Pars Distalis                               | Hyperplasia                   | Mild                   |
| * Skin                   |   | Cyst Epithelial Inclusion     |                        |
|                          | [ Cyst Epithelial Inclusion TGLs = 1 - 19 ] |                               |                        |
| * Spleen                 |   | Extramedullary Hematopoiesis  | Mild                   |
|                          |   | Pigment                       | Mild                   |
| * Testis                 | Bilateral, Germinal Epith                   | Degeneration                  | Moderate               |
|                          | Bilateral                                   | Edema                         | Minimal                |
|                          | Bilateral                                   | Polyarteritis Nodosa          | Moderate               |
| * Thymus                 |   | Atrophy                       | Mild                   |
| * Thyroid Gland          | C Cell                                      | Adenoma                       |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300035

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            | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                 |   |                               |                        |
|-----------------|---|-------------------------------|------------------------|
| * Bone Marrow   |   | Hypercellularity              | Minimal                |
| * Heart         |   | Cardiomyopathy                | Mild                   |
|                 | Valve                                       | Fibrosis                      | Minimal                |
| * Kidney        | Renal Tubule                                | Cyst                          |                        |
|                 |   | Nephropathy                   | Chronicprogr, Moderate |
|                 | [ Cyst TGLs = 1 - 20 ]                      |                               |                        |
| * Liver         |   | Basophilic Focus              |                        |
| * Lung          |   | Inflammation                  | Granulomatous, Minimal |
| * Nose          | Olfactory Epi                               | Accumulation, Hyaline Droplet | Minimal                |
| * Skin          |   | Cyst Epithelial Inclusion     |                        |
|                 | [ Cyst Epithelial Inclusion TGLs = 2 - 21 ] |                               |                        |
| * Spleen        |   | Extramedullary Hematopoiesis  | Mild                   |
|                 | White Pulp                                  | Hyperplasia                   | Mild                   |
|                 |   | Pigment                       | Mild                   |
| * Testis        | Bilateral, Germinal Epith                   | Degeneration                  | Minimal                |
|                 | Interstit Cell                              | Hyperplasia                   | Moderate               |
|                 | Bilateral                                   | Polyarteritis Nodosa          | Mild                   |
| * Thymus        |   | Atrophy                       | Minimal                |
| * Thyroid Gland | C Cell                                      | Adenoma                       |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300036

**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	* 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			

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Moderate
* 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
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral	Edema	Minimal
	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 612

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300037

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      | * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Pancreas                  | * Preputial Gland        | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testis                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |               |                               |                        |
|-------------------|---------------|-------------------------------|------------------------|
| * Heart           |               | Cardiomyopathy                | Minimal                |
| * Kidney          |               | Nephropathy                   | Chronicprogr, Moderate |
| * Lung            |               | Infiltration Cellular         | Histiocyte, Mild       |
| * Nose            | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal                |
| * Pituitary Gland | Pars Distalis | Hyperplasia                   | Minimal                |
| * Prostate        | Ventral       | Inflammation                  | Chronic, Minimal       |
| * Spleen          |               | Extramedullary Hematopoiesis  | Mild                   |
|                   |               | Pigment                       | Mild                   |
| * Thymus          |               | Atrophy                       | Mild                   |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 398

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300038

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                   | * 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          |

OBSERVATIONS

- |                  |               |                               |                         |
|------------------|---------------|-------------------------------|-------------------------|
| * Bone Marrow    |               | Hypercellularity              | Mild                    |
| * Kidney         |               | Nephropathy                   | Chronicprogr, Minimal   |
| * Nose           | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal                 |
| Peripheral Nerve |               | Infiltration Cellular         | Mononuclear CI, Minimal |
| * Spleen         |               | Pigment                       | Moderate                |
| * Thymus         |               | Atrophy                       | Marked                  |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300039

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 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        | * Stomach, Forestomach     | * Stomach, Glandular     | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                          |                             |

OBSERVATIONS

- |                           |                          |                               |                        |
|---------------------------|--------------------------|-------------------------------|------------------------|
| * Eye                     | Cornea                   | Inflammation                  | Chronic, Minimal       |
| * 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 | Minimal                |
| * Pancreas                | Acinus                   | Hyperplasia                   | Moderate               |
| * Skin                    | Subcut Tiss              | Lipoma                        |                        |
|                           | [ Lipoma TGLs = 1 - 20 ] |                               |                        |
| * Spleen                  |                          | Extramedullary Hematopoiesis  | Mild                   |
|                           |                          | Pigment                       | Minimal                |
| * Testis                  | Interstit Cell           | Adenoma                       |                        |
|                           | Bilateral                | Edema                         | Minimal                |
|                           | Bilateral                | Polyarteritis Nodosa          | Minimal                |
| * Thymus                  |                          | Atrophy                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 564

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300040

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      |
| * Liver                     | * 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       | * Testis                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |                              |                    |
|-------------------|------------------------------|--------------------|
| * Adrenal Medulla | Hyperplasia                  | Focal, Moderate    |
| * Heart           | Cardiomyopathy               | Mild               |
| * Kidney          | Nephropathy                  | Chronicprogr, Mild |
| * Spleen          | Extramedullary Hematopoiesis | Mild               |
|                   | Pigment                      | Minimal            |
| * Thymus          | Atrophy                      | Mild               |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300041

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	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Prostate	Dorsal, Lateral	Inflammation	Chronic, Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Edema	Minimal
* Thymus		Atrophy	Mild

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300042

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          | * Pancreas                 |
| * Parathyroid Gland       | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

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

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Epididymis
- \* Heart
- [ Schwannoma Malignant TGLs = 5 - 20 ]
- \* Intestine Large, Cecum
- \* Intestine Large, Rectum
- \* Kidney
- [ Nephropathy TGLs = 4 - 19 ]
- \* Liver
- [ Cyst TGLs = 2 - 18 ]
- \* Lung
- Note: "Heart failure cells".
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Lymph Node, Mandibular
- [ Dilation TGLs = 1 - 12 ]
- \* Nose
- \* Pancreas
- Bilateral
- Renal Tubule
- Bile Duct
- Hyperplasia
- Hyperplasia
- Polyarteritis Nodosa
- Cardiomyopathy
- Schwannoma Malignant
- Polyarteritis Nodosa
- Polyarteritis Nodosa
- Hyperplasia
- Nephropathy
- Polyarteritis Nodosa
- Basophilic Focus
- Cyst
- Infiltration Cellular
- Dilation
- Accumulation, Hyaline Droplet
- Hyperplasia
- Mild
- Focal, Moderate
- Mild
- Moderate
- Minimal
- Minimal
- Minimal
- Chronicprogr, Marked
- Mild
- Histiocyte, Marked
- Mild
- Minimal
- Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 43

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300043

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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

---

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 632

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Mammary Gland	* Nose
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Necrosis	Mild
Blood Vessel	Aorta	Mineral	Moderate
* Epididymis	Bilateral	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Acute, Mild
* Kidney		Nephropathy	Chronicprogr, Marked
	[ Nephropathy TGLs = 2 - 8 ]		
* Lung		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Atrophy	Moderate
* Lymph Node, Mesenteric		Atrophy	Marked
		Inflammation	Acute, Mild
* Pancreas	Acinus	Hyperplasia	Mild
* Parathyroid Gland		Hyperplasia	Diffuse, Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Mineral	Mild
* Prostate	Dorsal, Lateral	Inflammation	Acute, Mild
* Skin		Hyperkeratosis	Mild
	Note: Possible nevus or skin tag associated (but no appropriate term available in TDMSE).		
	[ Hyperkeratosis TGLs = 1 - 18 ]		
* Spleen	White Pulp	Atrophy	Moderate
		Pigment	Moderate
* Stomach, Glandular		Mineral	Marked
* Testis	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 632

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300044

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Bilateral, Germinal Epith

Degeneration

Mild

Bilateral

Polyarteritis Nodosa

Mild

[ Degeneration TGLs = 3 - 16+17 ]

\* Thymus

Atrophy

Marked

\* Thyroid Gland

Follicle

Cyst

---

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 465

DOSE: 0 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300045

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      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Pancreas                 | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Stomach, Glandular        | * Thyroid Gland          | * Urinary Bladder          |                           |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                        |                           |                  |                      |
|------------------------|---------------------------|------------------|----------------------|
| * Brain                |                           | Glioma Malignant |                      |
| * Heart                |                           | Cardiomyopathy   | Minimal              |
| * Kidney               |                           | Nephropathy      | Chronicprogr, Mild   |
| * Pituitary Gland      | Pars Distalis             | Hyperplasia      | Minimal              |
| * Spleen               |                           | Pigment          | Moderate             |
| * Stomach, Forestomach | Epithelium                | Hyperplasia      | Mild                 |
|                        |                           | Inflammation     | Chronic Active, Mild |
| * Testis               | Bilateral, Germinal Epith | Degeneration     | Minimal              |
|                        |                           | Edema            | Minimal              |
| * Thymus               |                           | Atrophy          | Marked               |
| * Trachea              |                           | Inflammation     | Chronic Active, Mild |

PRIMARY CAUSE OF DEATH - Brain Glioma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 638

DOSE: 0 ppm Male

DISP: Natural Death

HISTO: 1300046

**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	* 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	

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hypercellularity	Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronicprogr, Marked
	[ Nephropathy TGLs = 3 - 8+18 ]		
* Liver	Bile Duct	Hyperplasia	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Hypertrophy	Minimal
* Prostate	Epithelium, Ventral	Hyperplasia	Moderate
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 735

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300048

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                | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

- |                   |   |                               |                        |
|-------------------|---|-------------------------------|------------------------|
| * Heart           |   | Cardiomyopathy                | Minimal                |
| * Kidney          |   | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |   | Clear Cell Focus              |                        |
| * Lung            |   | Infiltration Cellular         | Histiocyte, Moderate   |
|                   |   | Inflammation                  | Granulomatous, Minimal |
| * Nose            | Olfactory Epi                               | Accumulation, Hyaline Droplet | Mild                   |
| * Pituitary Gland | Pars Distalis                               | Hyperplasia                   | Minimal                |
|                   | Pars Distalis                               | Hypertrophy                   | Minimal                |
| * Skin            |   | Cyst Epithelial Inclusion     |                        |
|                   | [ Cyst Epithelial Inclusion TGLs = 1 - 19 ] |                               |                        |
| * Spleen          |   | Extramedullary Hematopoiesis  | Mild                   |
|                   |   | Pigment                       | Mild                   |
| * Testis          | Bilateral                                   | Edema                         | Minimal                |
|                   | Bilateral                                   | Polyarteritis Nodosa          | Mild                   |
| * Thymus          |   | Atrophy                       | Moderate               |
| * Thyroid Gland   | C Cell                                      | Hyperplasia                   | Minimal                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300049

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     |
| * 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        |                            |                          |

OBSERVATIONS

- |                           |                           |                               |                    |
|---------------------------|---------------------------|-------------------------------|--------------------|
| * Heart                   |                           | Cardiomyopathy                | Minimal            |
| * Intestine Large, Rectum |                           | Parasite Metazoan             |                    |
| * Kidney                  |                           | Nephropathy                   | Chronicprogr, Mild |
| * Liver                   |                           | Clear Cell Focus              |                    |
| * Lung                    | Alveolar Epith            | Hyperplasia                   | Mild               |
|                           |                           | Infiltration Cellular         | Histiocyte, Mild   |
| * Nose                    | Olfactory Epi             | Accumulation, Hyaline Droplet | Mild               |
| * Pituitary Gland         | Pars Distalis             | Hyperplasia                   | Mild               |
| * Spleen                  |                           | Extramedullary Hematopoiesis  | Mild               |
|                           |                           | Pigment                       | Mild               |
| * Testis                  | Bilateral, Germinal Epith | Degeneration                  | Minimal            |
|                           | Bilateral                 | Edema                         | Minimal            |
| * Thymus                  |                           | Atrophy                       | Mild               |
| * Thyroid Gland           | C Cell                    | Hyperplasia                   | Marked             |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300050

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 | * 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        |                            |                          |

OBSERVATIONS

- |                           |  |                               |                    |
|---------------------------|--|-------------------------------|--------------------|
| * Heart                   |  | Cardiomyopathy                | Minimal            |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                    |
| * Islets, Pancreatic      |  | Pigment                       | Mild               |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Mild |
| * Liver                   |  | Clear Cell Focus              |                    |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild   |
|                           | [ Infiltration Cellular TGLs = 1 - 7 ] |                               |                    |
| * Nose                    | Olfactory Epi                          | Accumulation, Hyaline Droplet | Mild               |
|                           | Respirat Epith                         | Hyperplasia                   | Minimal            |
| * Pituitary Gland         | Pars Distalis                          | Hyperplasia                   | Minimal            |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild               |
|                           |  | Pigment                       | Mild               |
| * Testis                  | Bilateral                              | Edema                         | Mild               |
| * Thymus                  |  | Atrophy                       | Moderate           |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Medulla
- \* Heart
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Prostate
- \* Skin
- [ Trichoepithelioma TGLs = 1 - 18 ]
- \* Spleen
- \* Testis
- \* Thymus
- \* Thyroid Gland
- [ Carcinoma TGLs = 2-11 ]
- Tooth
- Bile Duct
- Alveolus
- Olfactory Epi
- Pars Distalis
- Epithelium, Ventral
- Bilateral
- C Cell
- C Cell
- Pheochromocytoma Benign
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Hyperplasia
- Hyperplasia
- Trichoepithelioma
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Atrophy
- Adenoma
- Carcinoma
- Inflammation
- Mild
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Minimal
- Minimal
- Moderate
- Moderate
- Mild
- Minimal
- Mild
- Suppurative, Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300052

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
- \* Pancreas
- \* Preputial Gland
- \* Seminal Vesicle
- \* Skin
- \* Trachea
- \* 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

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- \* Thyroid Gland
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Bile Duct
- Alveolar Epith
- Alveolus
- Glands
- Olfactory Epi
- Pars Distalis
- Bilateral
- Bilateral
- C Cell
- Hyperplasia
- Hyperplasia
- Infiltration Cellular
- Dilation
- Inflammation
- Metaplasia
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Polyarteritis Nodosa
- Atrophy
- Adenoma
- Minimal
- Chronicprogr, Mild
- Minimal
- Minimal
- Histiocyte, Minimal
- Minimal
- Chronic Active, Minimal
- Respiratory, Minimal
- Minimal
- Mild
- Mild
- Minimal
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Heart Cardiomyopathy Mild
- \* Islets, Pancreatic Adenoma  
  - [ Adenoma TGLs = 5 - 22 ]
- \* Kidney Nephropathy Chronicprogr, Moderate
- \* Liver Clear Cell Focus
- \* Pancreas Acinus Adenoma Multiple  
  - Acinus Hyperplasia Marked
  - [ Adenoma TGLs = 1,2,3,4 - 18+19+20+21 ]
- \* Pituitary Gland Pars Distalis Hyperplasia Moderate  
  - Pars Distalis Hypertrophy Minimal
  - [ Hyperplasia TGLs = 6 - 11 ]
- \* Seminal Vesicle Hyperplasia Minimal
- \* Spleen Extramedullary Hematopoiesis Mild  
  - Pigment Mild
- \* Testis Interstitial Cell Adenoma
- \* Thymus Atrophy Moderate
- \* Thyroid Gland C Cell Carcinoma  
  - [ Carcinoma TGLs = 7 - 11 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Nose
* Pancreas	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone	Cartilage, Joint	Degeneration	Minimal
* Bone Marrow		Hypercellularity	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 1 - 11 ]		
* Spleen	White Pulp	Atrophy	Mild
		Pigment	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
		Ulcer	Minimal
* Testis	Bilateral	Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* 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 Marrow
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Urinary Bladder
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone
- \* Heart
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- [ Dilation TGLs = 1-18 ]
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- \* Thyroid Gland
- Cartilage, Joint
- Alveolus
- Olfactory Epi
- Bile Duct
- Pars Distalis
- Bilateral, Germinal Epith
- Bilateral
- C Cell
- Hyperplasia
- Degeneration
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Dilation
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Edema
- Polyarteritis Nodosa
- Atrophy
- Adenoma
- Focal, Mild
- Minimal
- Minimal
- Chronicprogr, Moderate
- Histiocyte, Minimal
- Minimal
- Mild
- Mild
- Mild
- Minimal
- Minimal
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300056

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           |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |

OBSERVATIONS

- |                     |                           |                               |                         |
|---------------------|---------------------------|-------------------------------|-------------------------|
| * Adrenal Medulla   |                           | Hyperplasia                   | Focal, Minimal          |
| * Heart             |                           | Cardiomyopathy                | Minimal                 |
| * Kidney            |                           | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver             |                           | Basophilic Focus              |                         |
|                     |                           | Clear Cell Focus              |                         |
| * Nose              | Bile Duct                 | Hyperplasia                   | Mild                    |
|                     | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal                 |
| * Pancreas          |                           | Inflammation                  | Chronic Active, Minimal |
| * Parathyroid Gland |                           | Cholangiofibrosis             | Moderate                |
| * Pituitary Gland   |                           | Hyperplasia                   | Focal, Minimal          |
| * Skin              | Pars Distalis             | Hyperplasia                   | Mild                    |
|                     | Subcut Tiss               | Fibroma                       |                         |
|                     | [ Fibroma TGLs = 1 - 18 ] |                               |                         |
| * Spleen            |                           | Extramedullary Hematopoiesis  | Mild                    |
|                     |                           | Pigment                       | Minimal                 |
| * Testis            | Bilateral, Germinal Epith | Degeneration                  | Minimal                 |
| * Thymus            |                           | Atrophy                       | Mild                    |
| * Thyroid Gland     | C Cell                    | Hyperplasia                   | Minimal                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 287

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300057

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        | * Pituitary Gland         | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Testis                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

- |          |            |                       |                       |
|----------|------------|-----------------------|-----------------------|
| * Kidney |            | Nephropathy           | Chronicprogr, Minimal |
| * Lung   | Alveolus   | Infiltration Cellular | Histiocyte, Mild      |
| * Spleen | White Pulp | Atrophy               | Minimal               |
|          |            | Pigment               | Mild                  |
| * Thymus |            | Atrophy               | Moderate              |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300058

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            | * Parathyroid Gland      | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle        | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thyroid Gland            | * Trachea                | * Urinary Bladder           |                          |

OBSERVATIONS

- |                           |                                    |                               |                        |
|---------------------------|------------------------------------|-------------------------------|------------------------|
| * Adrenal Cortex          |                                    | Hypertrophy                   | Focal, Moderate        |
| * Adrenal Medulla         |                                    | Pheochromocytoma Benign       |                        |
| * Heart                   |                                    | Cardiomyopathy                | Mild                   |
| * Intestine Large, Rectum |                                    | Parasite Metazoan             |                        |
| * Kidney                  |                                    | Nephropathy                   | Chronicprogr, Moderate |
| * Liver                   |                                    | Clear Cell Focus              |                        |
|                           |                                    | Mixed Cell Focus              |                        |
|                           | [ Mixed Cell Focus TGLs = 2 - 18 ] |                               |                        |
| * Lung                    |                                    | Inflammation                  | Granulomatous, Minimal |
| * Nose                    | Olfactory Epi                      | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas                | Acinus                             | Adenoma                       |                        |
|                           | Acinus                             | Hyperplasia                   | Marked                 |
| * Pituitary Gland         | Pars Distalis                      | Hyperplasia                   | Moderate               |
| * Skin                    | Sebaceous GI                       | Adenoma                       |                        |
|                           | [ Adenoma TGLs = 1 - 18 ]          |                               |                        |
| * Spleen                  |                                    | Extramedullary Hematopoiesis  | Mild                   |
|                           |                                    | Pigment                       | Minimal                |
| * Testis                  | Bilateral                          | Polyarteritis Nodosa          | Mild                   |
| * Thymus                  |                                    | Atrophy                       | Moderate               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300059

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         | * Preputial Gland        |
| * Prostate                 | * Salivary Glands         | * Seminal Vesicle           | * Skin                   |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Trachea                   | * Urinary Bladder        |

OBSERVATIONS

- |                   |               |                               |                    |
|-------------------|---------------|-------------------------------|--------------------|
| * Kidney          |               | Nephropathy                   | Chronicprogr, Mild |
| * Liver           |               | Clear Cell Focus              |                    |
|                   |               | Degeneration                  | Cystic, Minimal    |
| * Lung            |               | Infiltration Cellular         | Histiocyte, Mild   |
| * Nose            | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal            |
| * Pituitary Gland | Pars Distalis | Hyperplasia                   | Minimal            |
|                   | Pars Distalis | Hypertrophy                   | Minimal            |
| * Spleen          |               | Extramedullary Hematopoiesis  | Minimal            |
|                   |               | Pigment                       | Mild               |
| * Testis          | Bilateral     | Edema                         | Minimal            |
| * Thymus          |               | Atrophy                       | Mild               |
| * Thyroid Gland   | C Cell        | Carcinoma                     |                    |

Note: C-cell tumor present in ectopic tissue near bronchial bifurcation.

[ Carcinoma TGLs = 1 - 18 ]





Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 653

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300061

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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Bone Marrow		Hypercellularity	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Marked
	[ Nephropathy TGLs = 1 - 8+18 ]		
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Pancreas		Polyarteritis Nodosa	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 2 - 11 ]		
* Prostate		Polyarteritis Nodosa	Minimal
* Seminal Vesicle		Polyarteritis Nodosa	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Mild
Ureter		Polyarteritis Nodosa	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 579

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300062

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            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

- |          |           |                              |                        |
|----------|-----------|------------------------------|------------------------|
| * Heart  |           | Cardiomyopathy               | Minimal                |
| * Kidney |           | Nephropathy                  | Chronicprogr, Moderate |
| * Liver  |           | Clear Cell Focus             |                        |
| * Lung   |           | Infiltration Cellular        | Histiocyte, Mild       |
| * Spleen |           | Extramedullary Hematopoiesis | Mild                   |
|          |           | Pigment                      | Mild                   |
| * Testis | Bilateral | Polyarteritis Nodosa         | Mild                   |
| * Thymus |           | Atrophy                      | Mild                   |

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300063

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
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Pancreas
  - \* Pituitary Gland
  - \* Spleen
  - \* Testis
  - \* Thymus
- Hypercellularity
  - Polyarteritis Nodosa
  - Cardiomyopathy
  - Nephropathy
  - Clear Cell Focus
  - Infiltration Cellular
  - Olfactory Epi
  - Accumulation, Hyaline Droplet
  - Atrophy
  - Pars Distalis
  - Hyperplasia
  - Hypertrophy
  - Extramedullary Hematopoiesis
  - Pigment
  - Adenoma
  - Bilateral, Germinal Epith
  - Degeneration
  - Pars Distalis
  - Polyarteritis Nodosa
  - Atrophy
- Minimal
  - Minimal
  - Minimal
  - Chronicprogr, Marked
  - Histiocyte, Mild
  - Minimal
  - Minimal
  - Minimal
  - Minimal
  - Mild
  - Mild
  - Mild
  - Mild
  - Mild
  - Mild
  - Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300065

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     | * 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

OBSERVATIONS

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

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 556

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex [ Hypertrophy TGLs = 7 - 20 ] Hypertrophy Focal, Mild
- \* Bone Marrow Hypercellularity Mild
- \* Epididymis Bilateral Hypospermia Marked
- \* Heart Cardiomyopathy Mild
- \* Kidney [ Nephropathy TGLs = 5,6 - 8+19 ] Nephropathy Chronicprogr, Marked
- \* Liver Angiectasis Moderate
- \* Lung Fibrosis Moderate
- Infiltration Cellular Histiocyte, Moderate
- Inflammation Chronic Active, Moderate
- \* Nose Olfactory Epi Accumulation, Hyaline Droplet Minimal
- \* Pituitary Gland Pars Distalis Adenoma
- [ Adenoma TGLs = 4 - 11 ]
- \* Skin Hair Follicle Atrophy Marked
- Hyperkeratosis Mild
- Inflammation Chronic Active, Minimal
- [ Hyperkeratosis TGLs = 1 - 18 ]
- \* Spleen White Pulp Atrophy Mild
- Extramedullary Hematopoiesis Mild
- \* Stomach, Glandular Inflammation Chronic Active, Minimal
- \* Testis Bilateral, Germinal Epith Degeneration Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 66

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 556

**DOSE:** 300 ppm Male

**DISP:** Natural Death

**HISTO:** 1300066

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Degeneration TGLs = 2,3 - 16+17 ]

\* Thymus

Atrophy

Marked

---

PRIMARY CAUSE OF DEATH

- Heart Cardiomyopathy

CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy

- Lung Inflammation

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300067

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      | * Liver                     | * Lung                   | * 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

OBSERVATIONS

- |                 |               |                              |                      |
|-----------------|---------------|------------------------------|----------------------|
| * Heart         |               | Cardiomyopathy               | Minimal              |
| * Kidney        |               | Nephropathy                  | Chronicprogr, Mild   |
| * Nose          |               | Inflammation                 | Acute, Minimal       |
|                 | Olfactory Epi | Metaplasia                   | Respiratory, Minimal |
| * Spleen        |               | Extramedullary Hematopoiesis | Mild                 |
|                 |               | Pigment                      | Mild                 |
| * Testis        | Bilateral     | Edema                        | Minimal              |
| * Thymus        |               | Atrophy                      | Mild                 |
| * Thyroid Gland | C Cell        | Adenoma                      |                      |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300068

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

OBSERVATIONS

- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- Mesentery
- [ Necrosis TGLs = 2 - 19 ]
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- \* Thyroid Gland
- Fat
- Pars Distalis
- C Cell
- C Cell
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Necrosis
- Inflammation
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Atrophy
- Adenoma
- Carcinoma
- Minimal
- Chronicprogr, Mild
- Histiocyte, Mild
- Minimal
- Chronic Active, Minimal
- Mild
- Mild
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 653

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Parathyroid Gland
- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Epididymis
- \* Eye
- \* Kidney
- \* Liver
- \* Lung
- Lymph Node
- [ Lymphoma Malignant TGLs = 5 - 22 ]
- [ Lymphoma Malignant TGLs = 4 - 21 ]
- [ Lymphoma Malignant TGLs = 3 - 20 ]
- \* Lymph Node, Mandibular
- [ Leukemia Mononuclear TGLs = 2 - 19 ]
- \* Lymph Node, Mesenteric
- [ Leukemia Mononuclear TGLs = 6 - 23 ]
- Bilateral, Duct
- Popliteal
- Lumbar
- Mediastinal
- Hyperplasia
- Leukemia Mononuclear
- Exfoliated Germ Cell
- Necrosis
- Leukemia Mononuclear
- Leukemia Mononuclear
- Nephropathy
- Leukemia Mononuclear
- Inflammation
- Leukemia Mononuclear
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Leukemia Mononuclear
- Leukemia Mononuclear
- Minimal
- Mild
- Minimal
- Chronicprogr, Mild
- Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 653

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300069

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 7 - 18 ]		
* Prostate		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 1 - 18 ]		
* Testis	Germinal Epith	Degeneration	Minimal

---

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300070

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     |
| * Liver                     | * Lung                   | * 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        |

OBSERVATIONS

- |                                |               |                               |                         |
|--------------------------------|---------------|-------------------------------|-------------------------|
| * Heart                        |               | Cardiomyopathy                | Minimal                 |
| * Intestine Large, Rectum      |               | Parasite Metazoan             |                         |
| * Kidney                       |               | Nephropathy                   | Chronicprogr, Mild      |
| * Nose                         | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal                 |
| * Pituitary Gland              | Pars Distalis | Adenoma                       |                         |
| [ Adenoma TGLs = 2 - 11 ]      |               |                               |                         |
| * Preputial Gland              |               | Inflammation                  | Chronic Active, Minimal |
| [ Inflammation TGLs = 1 - 18 ] |               |                               |                         |
| * Spleen                       |               | Extramedullary Hematopoiesis  | Mild                    |
|                                |               | Pigment                       | Mild                    |
| * Testis                       | Bilateral     | Edema                         | Minimal                 |
| * Thymus                       |               | Atrophy                       | Mild                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* 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
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - \* Eye
  - \* Heart
  - \* Islets, Pancreatic
  - [ Adenoma TGLs = 1- 18 ]
  - \* Kidney
  - \* Liver
  - \* Lung
  - [ Infiltration Cellular TGLs = 4 - 6+7 ]
  - \* Pituitary Gland
  - Pars Distalis
  - Pars Distalis
  - \* Skin
  - [ Neural Crest Tumor TGLs = 2 - 19 ]
  - \* Spleen
  - \* Testis
  - Bilateral
  - Bilateral
  - \* Thymus
  - \* Thyroid Gland
  - Urethra
  - [ Adenocarcinoma TGLs = 3 - 20 ]
- Hypercellularity
- Inflammation
- Cardiomyopathy
- Adenoma
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Hypertrophy
- Neural Crest Tumor
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Polyarteritis Nodosa
- Atrophy
- Adenoma
- Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300072

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                    |
| * Pancreas                  | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |                           |                              |                        |
|-------------------|---------------------------|------------------------------|------------------------|
| * Bone Marrow     |                           | Hypercellularity             | Mild                   |
| * Heart           |                           | Cardiomyopathy               | Minimal                |
| * Kidney          |                           | Nephropathy                  | Chronicprogr, Moderate |
| * Liver           |                           | Clear Cell Focus             |                        |
| * Lung            |                           | Infiltration Cellular        | Histiocyte, Minimal    |
| * Pituitary Gland | Pars Distalis             | Hypertrophy                  | Minimal                |
| * Spleen          |                           | Extramedullary Hematopoiesis | Mild                   |
|                   |                           | Pigment                      | Minimal                |
| * Testis          | Bilateral, Germinal Epith | Degeneration                 | Minimal                |
|                   |                           | Edema                        | Minimal                |
|                   | Bilateral                 | Polyarteritis Nodosa         | Mild                   |
| * Thymus          |                           | Thymoma Malignant            |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300073

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
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
		Schwannoma Malignant	
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Germinal Epith	Degeneration	Minimal
	Bilateral	Edema	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300074

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
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Adenoma	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Germinal Epith	Degeneration	Minimal
		Edema	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 709

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300075

**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                  | * Pituitary Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**OBSERVATIONS**

- |                     |  |                               |                         |
|---------------------|--|-------------------------------|-------------------------|
| * Adrenal Medulla   |  | Pheochromocytoma Benign       |                         |
| * Bone Marrow       |  | Hypercellularity              | Marked                  |
| * Kidney            | Renal Tubule                                   | Accumulation, Hyaline Droplet | Marked                  |
|                     | [ Accumulation, Hyaline Droplet TGLs = 2 - 8 ] | Nephropathy                   | Chronicprogr, Minimal   |
| * Lung              |  | Infiltration Cellular         | Histiocyte, Minimal     |
|                     | [ Infiltration Cellular TGLs = 4 - 6+7 ]       | Inflammation                  | Granulomatous, Minimal  |
| * Nose              | Olfactory Epi                                  | Accumulation, Hyaline Droplet | Minimal                 |
|                     |  | Inflammation                  | Chronic Active, Minimal |
| * Parathyroid Gland |  | Hyperplasia                   | Focal, Mild             |
| * Preputial Gland   |  | Squamous Cell Carcinoma       |                         |
| * Skin              | Subcut Tiss                                    | Fibrosarcoma                  |                         |
|                     | [ Fibrosarcoma TGLs = 1 - 18 ]                 |                               |                         |
| * Spleen            |  | Extramedullary Hematopoiesis  | Mild                    |
|                     |  | Pigment                       | Minimal                 |
| * Testis            |  | Edema                         | Minimal                 |
| * Thymus            |  | Atrophy                       | Marked                  |

Note: Thymic remnant so small as to be essentially absent, justifying the diagnosis of marked atrophy.

[ Atrophy TGLs = 3 - 6 ]

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300076

**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	* 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
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Medulla		Pheochromocytoma Benign	
	[ Pheochromocytoma Benign TGLs = 2 - 11 ]		
* Bone Marrow		Hypercellularity	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	[ Hepatocellular Adenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
		Inflammation	Granulomatous, Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis		Mesothelioma Malignant	
	Bilateral	Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	Bilateral, C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300077

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            | * Pancreas                |
| * Parathyroid Gland         | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                   |                |                               |                        |
|-------------------|----------------|-------------------------------|------------------------|
| * Adrenal Medulla |                | Hyperplasia                   | Focal, Minimal         |
| * Heart           |                | Cardiomyopathy                | Minimal                |
| * Kidney          |                | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |                | Clear Cell Focus              |                        |
| * Lung            |                | Infiltration Cellular         | Histiocyte, Minimal    |
| * Nose            | Olfactory Epi  | Accumulation, Hyaline Droplet | Mild                   |
| * Pituitary Gland | Pars Distalis  | Hyperplasia                   | Minimal                |
| * Spleen          |                | Extramedullary Hematopoiesis  | Mild                   |
|                   |                | Pigment                       | Mild                   |
| * Testis          | Germinal Epith | Degeneration                  | Minimal                |
| * Thymus          |                | Atrophy                       | Moderate               |
| * Thyroid Gland   | C Cell         | Hyperplasia                   | Moderate               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Colon	* 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	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Adenoma	
Note: Adenoma arising from cortical tissue in medulla of adrenal gland.			
[ Adenoma TGLs = 1 - 11 ]			
* Epididymis	Bilateral	Polyarteritis Nodosa	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Polyarteritis Nodosa	Minimal
* Intestine Large, Rectum		Polyarteritis Nodosa	Minimal
* Kidney		Nephropathy	Chronicprogr, Marked
[ Nephropathy TGLs = 2 - 8+18 ]			
* Liver		Clear Cell Focus	
* Lung		Inflammation	Chronic Active, Minimal
Mesentery		Polyarteritis Nodosa	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas	Acinus	Hyperplasia	Minimal
		Polyarteritis Nodosa	Mild
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Moderate
	Bilateral	Polyarteritis Nodosa	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Trachea		Inflammation	Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300079

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            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

- |   |                           |                              |                        |
|---|---------------------------|------------------------------|------------------------|
| * Heart   |                           | Cardiomyopathy               | Minimal                |
| * Kidney  |                           | Nephropathy                  | Chronicprogr, Moderate |
| * Liver   |                           | Clear Cell Focus             |                        |
|   | Bile Duct                 | Hyperplasia                  | Minimal                |
| * Lung  |                           | Inflammation                 | Granulomatous, Minimal |
| Oral Mucosa   | Sebaceous GI              | Adenoma                      |                        |
| * Pituitary Gland                                     | Pars Distalis             | Hyperplasia                  | Marked                 |
| * Preputial Gland                                     |                           | Squamous Cell Carcinoma      |                        |
| * Skin  | Sebaceous GI              | Hyperplasia                  | Moderate               |
|   | Hair Follicle             | Inflammation                 | Chronic, Mild          |
| Note: Part of TGL-1.<br>[ Hyperplasia TGLs = 1 - 19 ] |                           |                              |                        |
| * Spleen  |                           | Extramedullary Hematopoiesis | Mild                   |
|   |                           | Pigment                      | Minimal                |
| * Testis  | Bilateral, Germinal Epith | Degeneration                 | Minimal                |
|   | Bilateral                 | Edema                        | Minimal                |
|   | Bilateral                 | Polyarteritis Nodosa         | Minimal                |
| * Thymus  |                           | Atrophy                      | Mild                   |
| * Thyroid Gland                                       | C Cell                    | Hyperplasia                  | Marked                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 635

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300080

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, 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

OBSERVATIONS

* Brain		Meningioma Malignant	
	[ Meningioma Malignant TGLs = 1 - 18 ]		
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver	Bile Duct	Inflammation	Chronic Active, Moderate
	[ Inflammation TGLs = 2 - 19 ]		
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Acute, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas		Inflammation	Chronic Active, Mild
* Pituitary Gland		Meningioma Malignant	Metastatic (Brain)
* Spleen		Pigment	Moderate
* Testis		Edema	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	Bilateral, C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH - Brain Meningioma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel                | * 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         | * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Testis                  |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |   |  |                               |                         |
|---|--|-------------------------------|-------------------------|
| * Adrenal Cortex  |  | Hyperplasia                   | Minimal                 |
| * Adrenal Medulla   |  | Pheochromocytoma Benign       |                         |
| * Bone  | Cartilage, Joint                         | Degeneration                  | Minimal                 |
| * Bone Marrow   |  | Congestion                    | Mild                    |
|   |  | Hypercellularity              | Mild                    |
| * Brain   | Glial Cell                               | Hypertrophy                   | Minimal                 |
| Note: Astrocyte hypertrophy present at median eminence/pituitary stalk. |  |                               |                         |
| * Heart   |  | Cardiomyopathy                | Minimal                 |
| * Kidney  |  | Nephropathy                   | Chronicprogr, Mild      |
| * Liver   |  | Clear Cell Focus              |                         |
| * Lung  |  | Infiltration Cellular         | Histiocyte, Mild        |
|   |  | Inflammation                  | Granulomatous, Minimal  |
|   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                         |
| * Nose  | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                 |
| * Pituitary Gland   | Pars Distalis                            | Adenoma                       |                         |
|   | [ Adenoma TGLs = 2 - 11 ]                |                               |                         |
| * Prostate  | Dorsal, Lateral                          | Inflammation                  | Chronic Active, Minimal |
| * Spleen  |  | Extramedullary Hematopoiesis  | Mild                    |
|   |  | Pigment                       | Mild                    |
| * Thymus  |  | Atrophy                       | Moderate                |
| * Thyroid Gland   | C Cell                                   | Hyperplasia                   | Mild                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 676

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300082

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	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testis	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Hypercellularity	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Hypertrophy	Minimal
* Prostate	Dorsal, Lateral	Inflammation	Chronic Active, Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 257

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300084

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          | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

OBSERVATIONS

- |                   |                         |                               |                       |
|-------------------|-------------------------|-------------------------------|-----------------------|
| * Bone Marrow     |                         | Hypercellularity              | Mild                  |
| * Brain           |                         | Glioma Malignant              |                       |
|                   |                         | Necrosis                      | Mild                  |
| * Heart           |                         | Cardiomyopathy                | Minimal               |
| * Kidney          |                         | Nephropathy                   | Chronicprogr, Minimal |
| * Lung            |                         | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose            | Olfactory Epi           | Accumulation, Hyaline Droplet | Minimal               |
| * Pituitary Gland | Pars Distalis           | Hypertrophy                   | Minimal               |
| * Prostate        |                         | Edema                         | Mild                  |
|                   | [ Edema TGLs = 1 - 18 ] |                               |                       |
| * Spleen          | White Pulp              | Atrophy                       | Mild                  |
|                   |                         | Pigment                       | Mild                  |
| * Testis          | Germinal Epith          | Degeneration                  | Minimal               |
| * Thymus          |                         | Atrophy                       | Minimal               |

PRIMARY CAUSE OF DEATH - Brain Glioma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 602

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Brain                  | * Epididymis               | * 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       | * Testis                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

OBSERVATIONS

- |                                |                              |                        |
|--------------------------------|------------------------------|------------------------|
| * Bone Marrow                  | Hypercellularity             | Minimal                |
| * Esophagus                    | Foreign Body                 |                        |
|                                | Inflammation                 | Chronic Active, Marked |
| [ Inflammation TGLs = 1 - 18 ] |                              |                        |
| * Heart                        | Cardiomyopathy               | Mild                   |
| * Kidney                       | Nephropathy                  | Chronicprogr, Mild     |
| * Lung                         | Infiltration Cellular        | Histiocyte, Minimal    |
| * Spleen                       | Extramedullary Hematopoiesis | Mild                   |
|                                | Pigment                      | Mild                   |
| * Thymus                       | Atrophy                      | Moderate               |

PRIMARY CAUSE OF DEATH - Esophagus Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| Blood Vessel             | * Bone                     | * Bone Marrow            | * Brain                     |
| * Epididymis             | * 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                 | * Salivary Glands        | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular     | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                          |                             |

OBSERVATIONS

- |                           |                                |                               |                        |
|---------------------------|--------------------------------|-------------------------------|------------------------|
| * Adrenal Cortex          |                                | Adenoma                       |                        |
|                           |                                | Hypertrophy                   | Focal, Mild            |
| * Adrenal Medulla         |                                | Pheochromocytoma Benign       |                        |
| * Intestine Large, Rectum |                                | Parasite Metazoan             |                        |
| * Kidney                  |                                | Nephropathy                   | Chronicprogr, Moderate |
| * Liver                   |                                | Clear Cell Focus              |                        |
| * Lung                    |                                | Infiltration Cellular         | Histiocyte, Minimal    |
| * Nose                    | Olfactory Epi                  | Accumulation, Hyaline Droplet | Minimal                |
| * Pituitary Gland         | Pars Distalis                  | Hyperplasia                   | Mild                   |
| * Spleen                  |                                | Extramedullary Hematopoiesis  | Mild                   |
|                           |                                | Pigment                       | Mild                   |
| * Testis                  | Germinal Epith                 | Degeneration                  | Mild                   |
|                           | [ Degeneration TGLs = 1 - 17 ] |                               |                        |
| * Thymus                  |                                | Atrophy                       | Mild                   |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300087

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      |
| * 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          |                           |

AUTO PRECLUDES DIAG.

- \* Adrenal Cortex

OBSERVATIONS

- |                 |               |                               |                         |
|-----------------|---------------|-------------------------------|-------------------------|
| * Heart         |               | Cardiomyopathy                | Minimal                 |
| * Kidney        |               | Nephropathy                   | Chronicprogr, Moderate  |
| * Liver         |               | Clear Cell Focus              |                         |
|                 | Bile Duct     | Hyperplasia                   | Minimal                 |
| * Nose          | Olfactory Epi | Accumulation, Hyaline Droplet | Mild                    |
| * Prostate      | Ventral       | Inflammation                  | Chronic Active, Minimal |
| * Spleen        |               | Extramedullary Hematopoiesis  | Mild                    |
|                 |               | Pigment                       | Mild                    |
| * Testis        | Bilateral     | Edema                         | Minimal                 |
| * Thymus        |               | Hyperplasia                   | Lymphocyte, Mild        |
| * Thyroid Gland | C Cell        | Hyperplasia                   | Mild                    |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Parathyroid Gland
- \* Thymus

OBSERVATIONS

- \* Adrenal Medulla
  - Blood Vessel
  - \* Heart
  - \* Kidney
  - \* Liver
  - [ Hepatocellular Adenoma TGLs = 1 - 18 ]
  - \* Lung
  - [ Infiltration Cellular TGLs = 3 - 6+7 ]
  - \* Lymph Node, Mandibular
  - \* Lymph Node, Mesenteric
  - \* Nose
  - \* Pancreas
  - \* Pituitary Gland
  - \* Spleen
  - \* Testis
  - [ Degeneration TGLs = 2 - 16+17 ]
- |  |                           |                               |                        |
|--|---------------------------|-------------------------------|------------------------|
|  |                           | Hyperplasia                   | Focal, Mild            |
|  | Aorta                     | Polyarteritis Nodosa          | Mild                   |
|  |                           | Cardiomyopathy                | Minimal                |
|  |                           | Nephropathy                   | Chronicprogr, Moderate |
|  |                           | Hepatocellular Adenoma        |                        |
|  |                           | Infiltration Cellular         | Histiocyte, Mild       |
|  |                           | Atrophy                       | Marked                 |
|  |                           | Atrophy                       | Moderate               |
|  | Olfactory Epi             | Accumulation, Hyaline Droplet | Mild                   |
|  | Acinus                    | Atrophy                       | Minimal                |
|  |                           | Fatty Infiltration            | Mild                   |
|  | Pars Intermed             | Hyperplasia                   | Moderate               |
|  |                           | Extramedullary Hematopoiesis  | Mild                   |
|  |                           | Pigment                       | Minimal                |
|  | Bilateral, Germinal Epith | Degeneration                  | Minimal                |
|  | Bilateral                 | Polyarteritis Nodosa          | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300089

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	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Mesentery		Polyarteritis Nodosa	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300090

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
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Intestine Large, Rectum
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Spleen
  - \* Testis
  - \* Thymus
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- Bile Duct
  - Olfactory Epi
  - Bilateral
- Parasite Metazoan
  - Nephropathy
  - Clear Cell Focus
  - Hyperplasia
  - Infiltration Cellular
  - Accumulation, Hyaline Droplet
  - Extramedullary Hematopoiesis
  - Pigment
  - Edema
  - Atrophy
- Chronicprogr, Mild
  - Minimal
  - Histiocyte, Mild
  - Moderate
  - Mild
  - Minimal
  - Minimal
  - Mild

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex            | * Bone                   | * Epididymis               | * Esophagus              |
| * Eye                       | * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Liver                     | * Lung                   | * 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        |

OBSERVATIONS

- |                           |                           |                               |                       |
|---------------------------|---------------------------|-------------------------------|-----------------------|
| * Adrenal Medulla         | Bilateral                 | Hyperplasia                   | Focal, Moderate       |
| Blood Vessel              |                           | Infiltration Cellular         | Histiocyte, Mild      |
| * Bone Marrow             |                           | Hypercellularity              | Mild                  |
| * Brain                   |                           | Glioma Malignant              |                       |
| * Heart                   |                           | Cardiomyopathy                | Mild                  |
| * Intestine Large, Rectum |                           | Parasite Metazoan             |                       |
| * Kidney                  | Pelvis                    | Dilation                      | Minimal               |
|                           |                           | Nephropathy                   | Chronicprogr, Marked  |
|                           |                           | [ Dilation TGLs = 1 - 8 ]     |                       |
| * Lymph Node, Mandibular  |                           | Infiltration Cellular         | Plasma Cell, Moderate |
| * Nose                    | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal               |
| * Pancreas                |                           | Polyarteritis Nodosa          | Mild                  |
| * Spleen                  |                           | Extramedullary Hematopoiesis  | Mild                  |
|                           |                           | Pigment                       | Mild                  |
| * Testis                  | Bilateral, Germinal Epith | Degeneration                  | Minimal               |
|                           |                           | Edema                         | Minimal               |
|                           | Bilateral                 | Polyarteritis Nodosa          | Mild                  |
| * Thymus                  |                           | Atrophy                       | Minimal               |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300093

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate	Epithelium, Ventral	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Testis	Interstit Cell	Adenoma	
	Bilateral, Germinal Epith	Degeneration	Marked
		Polyarteritis Nodosa	Marked
	[ Adenoma TGLs = 5 - 16 ]		
	[ Degeneration TGLs = 4 - 17 ]		
* Thymus		Polyarteritis Nodosa	Mild

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300094

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
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Bone Marrow
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Nose
  - \* Pancreas
  - \* Pituitary Gland
  - \* Skin
  - \* Spleen
  - \* Testis
- [ Inflammation TGLs = 1 - 18 ]
- Hypercellularity
  - Cardiomyopathy
  - Nephropathy
  - Clear Cell Focus
  - Accumulation, Hyaline Droplet
  - Inflammation
  - Hyperplasia
  - Hyperplasia
  - Inflammation
  - Ulcer
  - Extramedullary Hematopoiesis
  - Pigment
  - Edema
- Minimal
  - Minimal
  - Chronicprogr, Mild
  - Mild
  - Chronic Active, Minimal
  - Minimal
  - Minimal
  - Chronic Active, Moderate
  - Moderate
  - Mild
  - Minimal
  - Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 615

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- Blood Vessel
- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Kidney [ Nephropathy TGLs = 1 - 18 ]
- \* Liver
- \* Nose
- \* Pancreas [ Adenoma TGLs = 2 - 19 ]
- \* Pituitary Gland
- \* Spleen
- \* Stomach, Glandular
- \* Testis
- Aorta
- Bilateral, Duct
- Bilateral
- Hepatocyte
- Olfactory Epi
- Olfactory Epi
- Acinus
- Pars Distalis
- White Pulp
- Bilateral, Germinal Epith
- Thrombus
- Mineral
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Mesothelioma Malignant
- Cardiomyopathy
- Nephropathy
- Fatty Change
- Accumulation, Hyaline Droplet
- Inflammation
- Metaplasia
- Adenoma
- Hypertrophy
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Mineral
- Polyarteritis Nodosa
- Degeneration
- Mild
- Mild
- Mild
- Moderate
- Moderate
- Moderate
- Moderate
- Chronicprogr, Marked
- Diffuse, Mild
- Mild
- Chronic Active, Minimal
- Respiratory, Minimal
- Mild
- Moderate
- Mild
- Mild
- Mild
- Minimal
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

---

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 615

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300095

---

ORGAN AND ACCOUNTABLE SITE STATUS

---

Mesothelioma Malignant

Bilateral

Polyarteritis Nodosa

Moderate

Atrophy

Marked

---

\* Thymus

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Epididymis
- [ Mesothelioma Malignant TGLs = 1 - 20+21 ]
- \* Islets Panc
- Note: Carcinoma listed in acinar pancreas (TGLs 4+5) is a mixed islet-acinar carcinoma.
- \* Kidney
- Pelvis
- \* Liver
- [ Necrosis TGLs = 9 - 12 ]
- \* Lung
- Lymph Node
- Mesentery
- \* Nose
- \* Pancreas
- Note: Mixed islet-acinar carcinoma. Both components are present in tumor.
- [ Carcinoma TGLs = 4,5 - 23+24 ]
- \* Pituitary Gland
- \* Prostate
- Hyperplasia
- Hypercellularity
- Carcinoma
- Mesothelioma Malignant
- Dilation
- Nephropathy
- Necrosis
- Carcinoma
- Infiltration Cellular
- Carcinoma
- Carcinoma
- Accumulation, Hyaline Droplet
- Carcinoma
- Hyperplasia
- Hypertrophy
- Carcinoma
- Focal, Moderate
- Moderate
- Metastatic (Pancreas)
- Moderate
- Chronicprogr, Moderate
- Mild
- Metastatic (Pancreas)
- Histiocyte, Moderate
- Metastatic (Pancreas)
- Metastatic (Pancreas)
- Mild
- Mild
- Metastatic (Pancreas)

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 300 ppm Male

DISP: Natural Death

HISTO: 1300096

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Mesothelioma Malignant Carcinoma	Metastatic (Epididymis) Metastatic (Pancreas)
Skeletal Muscle		Mesothelioma Malignant Carcinoma Mesothelioma Malignant	Metastatic (Epididymis) Metastatic (Pancreas) Metastatic (Epididymis)
	[ Carcinoma TGLs = 2,7 - 19+18 ]		
	[ Mesothelioma Malignant TGLs = 6 - 18 ]		
* Spleen	White Pulp	Atrophy Extramedullary Hematopoiesis	Moderate Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia Carcinoma	Mild Metastatic (Pancreas)
* Testis	Bilateral, Germinal Epith	Degeneration Edema Mesothelioma Malignant	Marked Moderate
	Note: Pancreatic carcinoma and mesothelioma both present in B22.		
	[ Mesothelioma Malignant TGLs = 8 - 22 ]		
* Thymus		Atrophy	Marked
* Urinary Bladder		Carcinoma	Metastatic (Pancreas)

PRIMARY CAUSE OF DEATH - Pancreas Acinus Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Epididymis Carcinoma Pancreas

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 709

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300097

**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	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Bone Marrow		Hypercellularity	Mild
* Epididymis		Hypospermia	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose		Foreign Body	
		Inflammation	Chronic Active, Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
* Skin	Subcut Tiss	Fibroma	
	[ Fibroma TGLs = 1 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
* Testis	Germinal Epith	Degeneration	Marked
	[ Degeneration TGLs = 2 - 16 ]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300098

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	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Adenoma	
	Acinus	Hyperplasia	Marked
	[ Adenoma TGLs = 1 - 18 ]		
	[ Hyperplasia TGLs = 2 - 19 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium, Ventral	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral	Edema	Minimal
	Bilateral	Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 671

DOSE: 300 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300099

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            | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Stomach, Glandular      | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

OBSERVATIONS

- |   |                           |                              |                       |
|---|---------------------------|------------------------------|-----------------------|
| * Adrenal Medulla   |                           | Pheochromocytoma Benign      |                       |
| * Bone Marrow   |                           | Hypercellularity             | Marked                |
| * Heart   |                           | Cardiomyopathy               | Minimal               |
| Note: Dilatation present but not an available diagnosis on TDMSE for Heart. |                           |                              |                       |
| [ Cardiomyopathy TGLs = 7 - 10 ]  |                           |                              |                       |
| * Kidney  |                           | Nephropathy                  | Chronicprogr, Minimal |
| * Liver   | Hepatocyte                | Cytoplasmic Alteration       | Mild                  |
|   |                           | Extramedullary Hematopoiesis | Mild                  |
| [ Cytoplasmic Alteration TGLs = 6 - 12 ]                                    |                           |                              |                       |
| * Lung  |                           | Infiltration Cellular        | Histiocyte, Marked    |
| [ Infiltration Cellular TGLs = 4,5 - 6+7 ]                                  |                           |                              |                       |
| * Skin  | Subcut Tiss               | Fibroma                      |                       |
| [ Fibroma TGLs = 1 - 18 ]   |                           |                              |                       |
| * Spleen  |                           | Extramedullary Hematopoiesis | Moderate              |
| * Stomach, Forestomach  | Epithelium                | Hyperplasia                  | Minimal               |
| * Testis  | Bilateral, Germinal Epith | Degeneration                 | Minimal               |
| [ Degeneration TGLs = 2,3 - 16+17 ]   |                           |                              |                       |
| * Thymus  |                           | Atrophy                      | Marked                |
| * Thyroid Gland   | Follicular Cel            | Hyperplasia                  | Minimal               |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

CONTRIBUTORY CAUSE OF DEATH - Heart Cardiomyopathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 300 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300100

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            | * Pancreas                |
| * Parathyroid Gland         | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testis                    | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

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

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Eye
- \* Heart
- \* Islets, Pancreatic
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Spleen
- \* Testis
- Tissue NOS
- Cornea
- Olfactory Epi
- Pars Intermed
- Subcut Tiss
- Hypertrophy
- Hypercellularity
- Inflammation
- Cardiomyopathy
- Adenoma
- Nephropathy
- Eosinophilic Focus
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Hyperplasia
- Fibrosarcoma
- Fibrosarcoma
- Extramedullary Hematopoiesis
- Pigment
- Polyarteritis Nodosa
- Sarcoma
- Focal, Mild
- Marked
- Chronic, Minimal
- Minimal
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Mild
- Mild
- Minimal
- Minimal
- Mild
- Moderate

Note: Mass interpreted as inflammatory due to leukocytes throughout, although sarcoma arising in area of chronic inflammation is a differential diagnosis.

[ Fibrosarcoma TGLs = 1- 18 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | Blood Vessel               | * Bone                    | * Bone Marrow               |
| * Brain                  | * Epididymis               | * Esophagus               | * Eye                       |
| * Harderian Gland        | * Intestine Large, Cecum   | * 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          |                           |                             |

OBSERVATIONS

- |                          |                             |                               |                        |
|--------------------------|-----------------------------|-------------------------------|------------------------|
| * Adrenal Cortex         |                             | Hyperplasia                   | Mild                   |
| * Heart                  |                             | Cardiomyopathy                | Minimal                |
| * Intestine Large, Colon |                             | Parasite Metazoan             |                        |
| * Kidney                 |                             | Nephropathy                   | Chronicprogr, Moderate |
| * Liver                  |                             | Clear Cell Focus              |                        |
|                          |                             | Pigment                       | Minimal                |
| * Nose                   | Olfactory Epi               | Accumulation, Hyaline Droplet | Minimal                |
| * Pituitary Gland        | Pars Distalis               | Adenoma                       |                        |
|                          | [ Adenoma TGLs = 1 - 11 ]   |                               |                        |
| * Spleen                 |                             | Pigment                       | Moderate               |
| * Testis                 | Bilateral, Germinal Epith   | Degeneration                  | Mild                   |
|                          |                             | Edema                         | Minimal                |
| * Thymus                 |                             | Atrophy                       | Moderate               |
| * Thyroid Gland          | C Cell                      | Carcinoma                     |                        |
|                          | [ Carcinoma TGLs = 2 - 11 ] |                               |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300103

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 | * 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        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

OBSERVATIONS

- |                      |                           |                               |                        |
|----------------------|---------------------------|-------------------------------|------------------------|
| * Brain              |                           | Glioma Malignant              |                        |
| * Heart              |                           | Cardiomyopathy                | Minimal                |
| * Islets, Pancreatic |                           | Hyperplasia                   | Minimal                |
| * Kidney             |                           | Nephropathy                   | Chronicprogr, Moderate |
| * Liver              |                           | Clear Cell Focus              |                        |
|                      |                           | Pigment                       | Minimal                |
| * Nose               | Olfactory Epi             | Accumulation, Hyaline Droplet | Mild                   |
| * Spleen             |                           | Extramedullary Hematopoiesis  | Mild                   |
|                      |                           | Pigment                       | Mild                   |
| * Testis             | Bilateral, Germinal Epith | Degeneration                  | Mild                   |
|                      |                           | Edema                         | Minimal                |
| * Thymus             |                           | Atrophy                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300104

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            | * Parathyroid Gland       |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |                  |                           |                               |                        |
|------------------|---------------------------|-------------------------------|------------------------|
| * Adrenal Cortex |                           | Adenoma                       |                        |
| * Heart          |                           | Cardiomyopathy                | Minimal                |
| * Kidney         |                           | Nephropathy                   | Chronicprogr, Moderate |
| * Liver          |                           | Clear Cell Focus              |                        |
|                  |                           | Pigment                       | Minimal                |
| * Lung           |                           | Infiltration Cellular         | Histiocyte, Mild       |
| * Nose           | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas       | Acinus                    | Adenoma                       |                        |
|                  | Acinus                    | Hyperplasia                   | Minimal                |
|                  | [ Adenoma TGLs = 1 - 18 ] |                               |                        |
| * Spleen         |                           | Extramedullary Hematopoiesis  | Mild                   |
|                  |                           | Pigment                       | Mild                   |
| * Testis         |                           | Edema                         | Minimal                |
| * Thymus         |                           | Atrophy                       | Mild                   |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300105

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           |
| * Parathyroid Gland         | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                           |               |                               |                    |
|---------------------------|---------------|-------------------------------|--------------------|
| * Bone Marrow             |               | Hypercellularity              | Minimal            |
| * Heart                   |               | Cardiomyopathy                | Mild               |
| * Kidney                  |               | Nephropathy                   | Chronicprogr, Mild |
| * Liver                   |               | Necrosis                      | Minimal            |
| * Nose                    | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate           |
| * Pancreas                | Acinus        | Hyperplasia                   | Mild               |
| * Pituitary Gland         | Pars Distalis | Adenoma                       |                    |
| [ Adenoma TGLs = 1 - 11 ] |               |                               |                    |
| * Spleen                  |               | Extramedullary Hematopoiesis  | Mild               |
|                           |               | Pigment                       | Minimal            |
| * Testis                  | Bilateral     | Edema                         | Minimal            |
| * Thymus                  |               | Atrophy                       | Moderate           |
| * Thyroid Gland           | C Cell        | Adenoma                       |                    |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| 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                      | * Preputial Gland        |
| * Prostate                 | * Salivary Glands         | * Seminal Vesicle           | * Skin                   |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Trachea                   | * Urinary Bladder        |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |  |                              |                      |
|-------------------|--|------------------------------|----------------------|
| * Adrenal Cortex  |  | Hypertrophy                  | Focal, Mild          |
| * Adrenal Medulla |  | Hyperplasia                  | Focal, Mild          |
| * Eye             | Cornea                                   | Inflammation                 | Chronic Active, Mild |
| * Heart           |  | Cardiomyopathy               | Mild                 |
| * Kidney          |  | Nephropathy                  | Chronicprogr, Marked |
| * Lung            |  | Fibrosis                     | Minimal              |
|                   |  | Hyperplasia                  | Lymphocyte, Minimal  |
|                   |  | Infiltration Cellular        | Histiocyte, Mild     |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                              |                      |
| * Pancreas        | Acinus                                   | Atrophy                      | Minimal              |
| * Pituitary Gland | Pars Distalis                            | Adenoma                      |                      |
|                   | [ Adenoma TGLs = 1 - 11 ]                |                              |                      |
| * Spleen          |  | Extramedullary Hematopoiesis | Mild                 |
|                   |  | Pigment                      | Mild                 |
| * Testis          | Bilateral, Germinal Epith                | Degeneration                 | Minimal              |
|                   | Bilateral                                | Polyarteritis Nodosa         | Mild                 |
| * Thymus          |  | Atrophy                      | Mild                 |
| * Thyroid Gland   | C Cell                                   | Adenoma                      |                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 332

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300107

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           |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Testis                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

OBSERVATIONS

- |               |               |                               |                       |
|---------------|---------------|-------------------------------|-----------------------|
| * Bone Marrow |               | Hypercellularity              | Mild                  |
| * Heart       |               | Cardiomyopathy                | Minimal               |
| * Kidney      |               | Nephropathy                   | Chronicprogr, Minimal |
| * Lung        |               | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose        | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal               |
| * Pancreas    | Acinus        | Atrophy                       | Minimal               |
| * Spleen      | White Pulp    | Atrophy                       | Moderate              |
|               |               | Pigment                       | Mild                  |
| * Thymus      |               | Atrophy                       | Moderate              |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 658

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300108

**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	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Medulla		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronicprogr, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Inflammation	Chronic Active, Marked
Note: Presence of squamous-lined portion in inflamed area suggests inflammation arose in a mammary duct.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Salivary Glands		Sarcoma	
* Skin		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 1 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Mild
		Edema	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Adenoma  
 CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 685

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300109

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		

OBSERVATIONS

* Bone Marrow		Hypercellularity	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Moderate
	[ Nephropathy TGLs = 1 - 8 ]		
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 10188 - 01

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

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**ANIMAL ID:** 110

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 662

**DOSE:** 1000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300110

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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

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300111

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
- \* Preputial Gland
- \* Skin
- \* Stomach, Forestomach
- \* Trachea
- \* 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

OBSERVATIONS

- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Prostate
- \* Spleen
- \* Testis
- \* Thymus
- Bile Duct
- Olfactory Epi
- Acinus
- Pars Intermed
- Pars Distalis
- Dorsal, Lateral
- Interstitial Cell
- Bilateral, Germinal Epith
- Bilateral
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Hyperplasia
- Hyperplasia
- Hypertrophy
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Degeneration
- Edema
- Atrophy
- Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Minimal
- Granulomatous, Minimal
- Mild
- Minimal
- Minimal
- Minimal
- Granulomatous, Minimal
- Mild
- Minimal
- Minimal
- Minimal
- Minimal
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300112

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
- \* Preputial Gland
- \* Skin
- \* Stomach, Forestomach
- \* Trachea
- \* 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

OBSERVATIONS

- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- Lymph Node
- [ Dilation TGLs = 1 - 18 ]
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Prostate
- \* Spleen
- \* Testis
- \* Thymus
- Bile Duct
- Renal
- Olfactory Epi
- Pars Distalis
- Epithelium, Ventral
- Bilateral, Germinal Epith
- Bilateral
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Dilation
- Accumulation, Hyaline Droplet
- Polyarteritis Nodosa
- Hyperplasia
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Edema
- Mesothelioma Malignant
- Polyarteritis Nodosa
- Atrophy
- Mild
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Mild
- Marked
- Mild
- Mild
- Minimal
- Moderate
- Mild
- Minimal
- Minimal
- Mild
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 669

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

Blood Vessel	Aorta	Mineral	Mild
* Bone Marrow		Hypercellularity	Mild
* Epididymis	Bilateral, Duct	Exfoliated Germ Cell	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Erosion	Mild
		Inflammation	Chronic Active, Mild
		Mineral	Mild
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Chronicprogr, Marked
	[ Nephropathy TGLs = 1 - 8 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Adenoma	
* Parathyroid Gland		Hyperplasia	Diffuse, Minimal
* Spleen	White Pulp	Atrophy	Moderate
		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Stomach, Glandular		Mineral	Mild
* Testis	Interstit Cell	Adenoma	
	Bilateral, Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* 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
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hypercellularity	Minimal
* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronicprogr, Moderate
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Dorsal, Lateral	Inflammation	Chronic Active, Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Infiltration Cellular	Lipocyte, Minimal
		Pigment	Minimal
* Testis	Bilateral	Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose
- \* Pituitary Gland
- \* Skin
  - [ Fibroma TGLs = 1- 18 ]
- \* Spleen
- \* Testis
- \* Thymus
- Hyperplasia
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Hyperplasia
- Fibroma
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Atrophy
- Mild
- Chronicprogr, Minimal
- Histiocyte, Mild
- Minimal
- Marked
- Mild
- Minimal
- Minimal
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300116

**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	* Pancreas
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
		Pigment	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Hypertrophy	Minimal
* Skin		Cyst Epithelial Inclusion	
	[ Cyst Epithelial Inclusion TGLs = 1 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral	Edema	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300117

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	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Epididymis	Bilateral	Inflammation	Chronic Active, Mild
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Acinus	Hyperplasia	Moderate
* Pituitary Gland	Pars Intermed	Hyperplasia	Minimal
* Skin		Inflammation	Suppurative, Marked
	Subcut Tiss	Squamous Cell Carcinoma	
	[ Inflammation TGLs = 2 - 19 ]		
	[ Squamous Cell Carcinoma TGLs = 1-18 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Medulla [ Pheochromocytoma Benign TGLs = 3 - 11 ]
- \* Bone [ Cartilage, Joint ]
- \* Heart [ Cardiomyopathy ]
- \* Kidney [ Nephropathy ]
- \* Liver [ Clear Cell Focus ]
- \* Lung [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Pituitary Gland [ Pars Distalis ]
- \* Skin [ Fibroma TGLs = 1 - 18 ]
- \* Spleen [ Extramedullary Hematopoiesis ]
- \* Testis [ Bilateral ]
- \* Thymus [ Atrophy ]
- \* Thyroid Gland [ C Cell ]
- Pheochromocytoma Benign
- Degeneration
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Hyperplasia
- Fibroma
- Minimal
- Mild
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Moderate
- Minimal
- Mild
- Mild
- Minimal
- Moderate
- Adenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300119

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            | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Preputial Gland          | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

OBSERVATIONS

- |                  |                     |                               |                       |
|------------------|---------------------|-------------------------------|-----------------------|
| * Adrenal Cortex |                     | Hyperplasia                   | Mild                  |
| * Bone Marrow    |                     | Hypercellularity              | Minimal               |
| * Heart          |                     | Cardiomyopathy                | Mild                  |
| * Kidney         |                     | Nephropathy                   | Chronicprogr, Minimal |
| * Liver          |                     | Clear Cell Focus              |                       |
| * Lung           |                     | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose           | Olfactory Epi       | Accumulation, Hyaline Droplet | Minimal               |
| * Prostate       | Epithelium, Ventral | Hyperplasia                   | Moderate              |
| * Spleen         |                     | Extramedullary Hematopoiesis  | Mild                  |
|                  |                     | Pigment                       | Minimal               |
| * Testis         | Bilateral           | Edema                         | Mild                  |
| * Thymus         |                     | Atrophy                       | Moderate              |

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow		Hypercellularity	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Hypertrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral	Edema	Mild
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Hypercellularity	Marked
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Infarct	Minimal
		Leukemia Mononuclear	
		Nephropathy	Chronicprogr, Moderate
* Liver		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 4 - 6+7 ]		
Lymph Node	Lumbar	Hyperplasia	Lymphocyte, Mild
	Renal	Inflammation	Chronic, Minimal
	Renal	Pigment	Mild
	[ Hyperplasia TGLs = 5 - 20 ]		
	[ Inflammation TGLs = 6 - 21 ]		
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Hemorrhage	Marked
	Arteriole	Mineral	Minimal
		Polyarteritis Nodosa	Minimal
	[ Hemorrhage TGLs = 1,3 - 18+19 ]		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**ANIMAL ID:** 123

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300123

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas		Polyarteritis Nodosa	Mild
* Spleen		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLs = 2 - 18 ]		
* Stomach, Glandular	Glands	Amyloid	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Minimal
* Thymus		Atrophy	Marked

Note: Small grossly and not found at trim so coded as atrophy, marked.

[ Atrophy TGLs = 7 - 6 ]

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| 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                    | * Pancreas                  | * Parathyroid Gland      |
| * Preputial Gland          | * Prostate                | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

- |                   |  |                              |                        |
|-------------------|--|------------------------------|------------------------|
| * Adrenal Cortex  |  | Hypertrophy                  | Focal, Mild            |
| * Adrenal Medulla |  | Hyperplasia                  | Focal, Moderate        |
| * Bone Marrow     |  | Hypercellularity             | Minimal                |
| * Heart           |  | Cardiomyopathy               | Minimal                |
| * Kidney          |  | Nephropathy                  | Chronicprogr, Moderate |
| * Liver           |  | Basophilic Focus             |                        |
|                   |  | Clear Cell Focus             |                        |
| * Lung            |  | Infiltration Cellular        | Histiocyte, Moderate   |
|                   |  | Inflammation                 | Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                              |                        |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                  | Moderate               |
|                   | Pars Distalis                            | Hypertrophy                  | Minimal                |
| * Spleen          |  | Extramedullary Hematopoiesis | Mild                   |
|                   |  | Pigment                      | Mild                   |
| * Testis          | Bilateral, Germinal Epith                | Degeneration                 | Minimal                |
|                   | Bilateral                                | Polyarteritis Nodosa         | Minimal                |
| * Thymus          |  | Atrophy                      | Mild                   |
| * Thyroid Gland   | C Cell                                   | Hyperplasia                  | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300125

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
- \* Pancreas
- \* Seminal Vesicle
- \* Thyroid Gland
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Trachea

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Inflammation
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Atrophy
- Focal, Mild
- Minimal
- Minimal
- Chronicprogr, Mild
- Histiocyte, Minimal
- Mild
- Acute, Minimal
- Mild
- Minimal
- Minimal
- Moderate
- Olfactory Epi
- Pars Distalis
- Bilateral

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300126

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            |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Trachea                 | * Urinary Bladder           |                          |                            |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                 |               |                               |                        |
|-----------------|---------------|-------------------------------|------------------------|
| * Heart         |               | Cardiomyopathy                | Mild                   |
| * Kidney        |               | Nephropathy                   | Chronicprogr, Moderate |
| * Liver         |               | Clear Cell Focus              |                        |
| * Lung          |               | Infiltration Cellular         | Histiocyte, Mild       |
| * Nose          | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate               |
| * Pancreas      | Acinus        | Adenoma                       |                        |
| * Spleen        |               | Extramedullary Hematopoiesis  | Mild                   |
|                 |               | Pigment                       | Minimal                |
| * Testis        | Bilateral     | Edema                         | Minimal                |
| * Thymus        |               | Atrophy                       | Mild                   |
| * Thyroid Gland | C Cell        | Hyperplasia                   | Minimal                |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex  
[ Adenoma TGLs = 1 - 11 ]
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Spleen
- \* Testis
- \* Thymus
- Adenoma
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Edema
- Polyarteritis Nodosa
- Atrophy
- Minimal
- Minimal
- Chronicprogr, Moderate
- Histiocyte, Moderate
- Minimal
- Mild
- Mild
- Minimal
- Minimal
- Minimal
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300128

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     | * Trachea                  | * Urinary Bladder         |

OBSERVATIONS

- |                   |  |                                     |                         |
|-------------------|--|-------------------------------------|-------------------------|
| * Epididymis      | Bilateral, Duct<br>Bilateral           | Exfoliated Germ Cell<br>Hypospermia | Mild<br>Marked          |
| * Heart           |  | Cardiomyopathy                      | Minimal                 |
| * Kidney          |  | Nephropathy                         | Chronicprogr, Moderate  |
| * Liver           |  | Clear Cell Focus                    |                         |
| * Lung            |  | Infiltration Cellular               | Histiocyte, Minimal     |
| * Nose            | Olfactory Epi                          | Accumulation, Hyaline Droplet       | Mild                    |
| * Pancreas        |  | Polyarteritis Nodosa                | Mild                    |
| * Pituitary Gland | Pars Distalis<br>Pars Distalis         | Hyperplasia                         | Mild                    |
| * Prostate        | Dorsal, Lateral                        | Hypertrophy                         | Mild                    |
| * Spleen          |  | Inflammation                        | Chronic Active, Minimal |
|                   |  | Extramedullary Hematopoiesis        | Mild                    |
|                   |  | Pigment                             | Mild                    |
| * Testis          | Bilateral, Germinal Epith<br>Bilateral | Degeneration                        | Moderate                |
|                   |  | Edema                               | Mild                    |
|                   |  | Granuloma Sperm                     | Mild                    |
|                   | Bilateral                              | Polyarteritis Nodosa                | Moderate                |
| * Thymus          |  | Atrophy                             | Moderate                |
| * Thyroid Gland   | C Cell                                 | Adenoma                             |                         |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Heart
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Inflammation
- Hyperplasia
- Hyperplasia
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Atrophy
- Mild
- Chronicprogr, Mild
- Histiocyte, Mild
- Minimal
- Chronic, Minimal
- Marked
- Moderate
- Moderate
- Mild
- Mild
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300130

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         |
| * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

OBSERVATIONS

- |                   |                           |                               |                        |
|-------------------|---------------------------|-------------------------------|------------------------|
| * Adrenal Medulla |                           | Hyperplasia                   | Focal, Minimal         |
| * Bone Marrow     |                           | Hypercellularity              | Minimal                |
| * Heart           |                           | Cardiomyopathy                | Minimal                |
| * Kidney          |                           | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |                           | Clear Cell Focus              |                        |
| * Lung            |                           | Infiltration Cellular         | Histiocyte, Minimal    |
| * Nose            | Olfactory Epi             | Accumulation, Hyaline Droplet | Mild                   |
| * Pituitary Gland | Pars Distalis             | Hyperplasia                   | Mild                   |
|                   | Pars Distalis             | Hypertrophy                   | Minimal                |
| * Prostate        | Epithelium, Ventral       | Hyperplasia                   | Mild                   |
|                   | Ventral                   | Inflammation                  | Acute, Minimal         |
| * Spleen          |                           | Extramedullary Hematopoiesis  | Mild                   |
|                   |                           | Pigment                       | Minimal                |
| * Testis          | Bilateral, Germinal Epith | Degeneration                  | Minimal                |
|                   | Bilateral                 | Edema                         | Minimal                |
| * Thymus          |                           | Atrophy                       | Moderate               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300131

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         | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                   |  |                               |                    |
|-------------------|--|-------------------------------|--------------------|
| * Adrenal Medulla |  | Pheochromocytoma Malignant    |                    |
|                   | [ Pheochromocytoma Malignant TGLs = 1 - 11 ] |                               |                    |
| * Heart           |  | Cardiomyopathy                | Minimal            |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Mild |
| * Liver           |  | Clear Cell Focus              |                    |
|                   | Bile Duct                                    | Hyperplasia                   | Minimal            |
|                   |  | Necrosis                      | 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                       | Mild               |
| * Testis          | Bilateral                                    | Edema                         | Minimal            |
| * Thymus          |  | Atrophy                       | Minimal            |
| * Thyroid Gland   | C Cell                                       | Adenoma                       |                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 698

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300132

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	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 1 - 11 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testis	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300133

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      | * Liver                     |
| * Lung                   | * 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      | * Testis                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

OBSERVATIONS

- |                  |                              |                      |
|------------------|------------------------------|----------------------|
| * Adrenal Cortex | Hyperplasia                  | Mild                 |
| * Bone Marrow    | Hypercellularity             | Mild                 |
| * Heart          | Schwannoma Malignant         |                      |
| * Kidney         | Nephropathy                  | Chronicprogr, Marked |
| * Spleen         | Extramedullary Hematopoiesis | Mild                 |
|                  | Pigment                      | Mild                 |
| * Thymus         | Atrophy                      | Mild                 |

PRIMARY CAUSE OF DEATH - Heart Schwannoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	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	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

\* Adren Cortex

Note: Lymphangiectasis is moderate in one adrenal cortex. No term is available in TDMSE for adrenal cortex that is close to this.

* Bone Marrow		Hypercellularity	Minimal
* Eye	Choroid	Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Parathyroid Gland		Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis		Edema	Minimal
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                             |                          |                            |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * 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            |
| * Pancreas               | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands        | * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testis                 | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |                           |  |                               |                              |
|---------------------------|--|-------------------------------|------------------------------|
| * Adrenal Cortex          |  | Degeneration                  | Cystic, Minimal              |
| * Adrenal Medulla         |  | Pheochromocytoma Malignant    |                              |
|                           | [ Pheochromocytoma Malignant TGLs = 2 - 11 ] |                               |                              |
| * Bone Marrow             |  | Hypercellularity              | Mild                         |
| * Heart                   |  | Cardiomyopathy                | Mild                         |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                              |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Minimal        |
| * Liver                   |  | Clear Cell Focus              |                              |
| * Lung                    |  | Pheochromocytoma Malignant    | Metastatic (Adrenal Medulla) |
| * Nose                    | Olfactory Epi                                | Accumulation, Hyaline Droplet | Minimal                      |
|                           |  | Inflammation                  | Chronic Active, Minimal      |
| * Pituitary Gland         | Pars Distalis                                | Hyperplasia                   | Moderate                     |
|                           | Pars Distalis                                | Hypertrophy                   | Minimal                      |
| * Skin                    | Subcut Tiss                                  | Fibroma                       |                              |
|                           | [ Fibroma TGLs = 1 - 18 ]                    |                               |                              |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                         |
|                           |  | Pigment                       | Minimal                      |
| * Thymus                  |  | Atrophy                       | Mild                         |
| * Thyroid Gland           | Bilateral, C Cell                            | Adenoma                       |                              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300137

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       |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |               |  |                               |                       |
|---------------|--|-------------------------------|-----------------------|
| * Bone Marrow |  | Hypercellularity              | Mild                  |
| * Heart       |  | Cardiomyopathy                | Mild                  |
| * Kidney      |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver       |  | Clear Cell Focus              |                       |
|               |  | Leukemia Mononuclear          |                       |
|               |  | Necrosis                      | Minimal               |
| * Lung        |  | Infiltration Cellular         | Histiocyte, Moderate  |
|               |  | Inflammation                  | Chronic Active, Mild  |
|               | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                       |
| * Nose        | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Pancreas    | Acinus                                   | Atrophy                       | Minimal               |
| * Spleen      |  | Extramedullary Hematopoiesis  | Mild                  |
|               |  | Pigment                       | Minimal               |
| * Testis      | Bilateral                                | Edema                         | Minimal               |
| * Thymus      |  | Atrophy                       | Moderate              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300138

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        |

OBSERVATIONS

- |                           |   |                               |                        |
|---------------------------|---|-------------------------------|------------------------|
| * Adrenal Cortex          |   | Hypertrophy                   | Focal, Moderate        |
| * Adrenal Medulla         |   | Pheochromocytoma Benign       |                        |
| * Bone Marrow             |   | Hypercellularity              | Mild                   |
| * Eye                     | Cornea                                  | Inflammation                  | Chronic, Minimal       |
| * Heart                   |   | Cardiomyopathy                | Mild                   |
| * Intestine Large, Rectum |   | Parasite Metazoan             |                        |
| * Kidney                  |   | Nephropathy                   | Chronicprogr, Moderate |
| * Liver                   |   | Clear Cell Focus              |                        |
|                           | Bile Duct                               | Dilation                      | Moderate               |
|                           | Bile Duct                               | Hyperplasia                   | Minimal                |
|                           | [ Dilation TGLs = 3 - 19 ]              |                               |                        |
| * Lung                    |   | Infiltration Cellular         | Histiocyte, Mild       |
|                           | [ Infiltration Cellular TGLs = 2 -6+7 ] |                               |                        |
| * Nose                    | Olfactory Epi                           | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas                | Acinus                                  | Hyperplasia                   | Minimal                |
|                           |   | Polyarteritis Nodosa          | Mild                   |
| * Parathyroid Gland       |   | Hyperplasia                   | Diffuse, Mild          |
| * Pituitary Gland         | Pars Distalis                           | Hyperplasia                   | Minimal                |
| * Skin                    |   | Keratoacanthoma               |                        |
|                           | [ Keratoacanthoma TGLs = 1 - 18 ]       |                               |                        |
| * Spleen                  |   | Extramedullary Hematopoiesis  | Minimal                |
|                           |   | Pigment                       | Minimal                |
| * Testis                  | Bilateral, Germinal Epith               | Degeneration                  | Minimal                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

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

**Date Report Requested:** 12/17/2019  
**Time Report Requested:** 10:43:08  
**First Dose M/F:** 02/17/11 / 02/18/11  
**Lab:** BAT

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**ANIMAL ID:** 138

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 1000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300138

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus	Bilateral	Polyarteritis Nodosa Atrophy	Mild Moderate
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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | 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       | * Pituitary Gland           |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

OBSERVATIONS

- |                   |  |   |  |
|-------------------|--|---|--|
| * Adrenal Medulla |  | Hyperplasia                                     | Focal, Minimal                             |
| * Epididymis      | Bilateral, Duct<br>Bilateral                             | Exfoliated Germ Cell<br>Hypospermia             | Mild<br>Mild                               |
| * Heart           |  | Cardiomyopathy                                  | Mild                                       |
| * Kidney          |  | Nephropathy                                     | Chronicprogr, Marked                       |
| * Liver           |  | Basophilic Focus<br>Clear Cell Focus            |  |
| * Lung            |  | Infiltration Cellular<br>Inflammation           | Histiocyte, Mild<br>Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ]                 |   |  |
| * Nose            | Olfactory Epi  | Accumulation, Hyaline Droplet                   | Mild                                       |
| * Pancreas        |  | Polyarteritis Nodosa                            | Mild                                       |
| * Spleen          |  | Extramedullary Hematopoiesis<br>Pigment         | Minimal<br>Mild                            |
| * Testis          | Interstit Cell<br>Bilateral, Germinal Epith<br>Bilateral | Adenoma<br>Degeneration<br>Polyarteritis Nodosa | <br>Mild<br>Mild                           |
| * Thymus          |  | Atrophy   | Moderate                                   |
| * Thyroid Gland   | C Cell   | Adenoma   |  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 734

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* 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	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Granular Cell Tumor Benign	
* Heart		Angiectasis	Marked
		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
		Polyarteritis Nodosa	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Polyarteritis Nodosa	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas		Polyarteritis Nodosa	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[ Hyperplasia TGLs = 1 - 11 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 701

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300141

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| 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            |
| * Pancreas                | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Testis                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**OBSERVATIONS**

- |                          |  |                               |                         |
|--------------------------|--|-------------------------------|-------------------------|
| * Adrenal Cortex         |  | Hyperplasia                   | Mild                    |
|                          |  | Necrosis                      | Marked                  |
|                          |  | Pigment                       | Mild                    |
| * Adrenal Medulla        |  | Pheochromocytoma Benign       |                         |
| * Bone Marrow            |  | Hypercellularity              | Moderate                |
| * Heart                  |  | Cardiomyopathy                | Minimal                 |
| * Intestine Large, Colon | Serosa                                   | Hemorrhage                    | Moderate                |
|                          |  | Inflammation                  | Chronic Active, Marked  |
|                          |  | Parasite Metazoan             |                         |
|                          | [ Inflammation TGLs = 1 - 18 ]           |                               |                         |
| * Kidney                 |  | Nephropathy                   | Chronicprogr, Mild      |
| * Liver                  | Bile Duct                                | Hyperplasia                   | Mild                    |
| * Lung                   |  | Infiltration Cellular         | Histiocyte, Mild        |
|                          | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                         |
| * Nose                   | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                 |
|                          |  | Inflammation                  | Chronic Active, Minimal |
| * Pituitary Gland        | Pars Distalis                            | Hyperplasia                   | Moderate                |
| * Spleen                 |  | Extramedullary Hematopoiesis  | Mild                    |
|                          |  | Pigment                       | Mild                    |
| * Thymus                 |  | Atrophy                       | Moderate                |

PRIMARY CAUSE OF DEATH - Intestine Large, Colon Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Lung
- \* Pituitary Gland
- \* Preputial Gland
- [ Inflammation TGLs = 1 - 18 ]
- \* Prostate
- \* Spleen
- \* Testis
- \* Thymus
- \* Thyroid Gland
- Cartilage, Joint
- Pars Distalis
- Epithelium, Ventral
- Bilateral
- Follicular Cel
- Hypertrophy
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Adenoma
- Inflammation
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Edema
- Atrophy
- Hyperplasia
- Focal, Mild
- Mild
- Minimal
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Minimal
- Chronic Active, Marked
- Minimal
- Mild
- Minimal
- Minimal
- Mild
- Minimal

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300143

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	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	Pars Distalis	Hypertrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Edema	Minimal
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300144

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            | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |                             |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |               |                               |                        |
|-------------------|---------------|-------------------------------|------------------------|
| * Adrenal Cortex  |               | Hyperplasia                   | Mild                   |
| * Bone Marrow     |               | Hypercellularity              | Minimal                |
| * Heart           |               | Cardiomyopathy                | Minimal                |
| * Kidney          |               | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |               | Basophilic Focus              |                        |
|                   |               | Clear Cell Focus              |                        |
|                   | Bile Duct     | Hyperplasia                   | Minimal                |
| * Lung            |               | Infiltration Cellular         | Histiocyte, Minimal    |
| * Nose            | Olfactory Epi | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas        | Acinus        | Hyperplasia                   | Minimal                |
| * Pituitary Gland | Pars Distalis | Hyperplasia                   | Minimal                |
| * Spleen          |               | Extramedullary Hematopoiesis  | Mild                   |
|                   |               | Pigment                       | Mild                   |
| * Testis          | Bilateral     | Edema                         | Minimal                |
|                   | Bilateral     | Polyarteritis Nodosa          | Minimal                |
| * Thymus          |               | Atrophy                       | Minimal                |
| * Thyroid Gland   | C Cell        | Carcinoma                     |                        |

[ Carcinoma TGLs = 1 - 11 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 722

DOSE: 1000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| 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         | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Testis                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

- |                   |  |                               |                         |
|-------------------|--|-------------------------------|-------------------------|
| * Adrenal Cortex  |  | Hypertrophy                   | Focal, Minimal          |
|                   |  | Leukemia Mononuclear          |                         |
| * Adrenal Medulla |  | Hyperplasia                   | Focal, Minimal          |
| * Bone Marrow     |  | Hypercellularity              | Moderate                |
| * Heart           |  | Cardiomyopathy                | Minimal                 |
| * Kidney          |  | Leukemia Mononuclear          |                         |
|                   |  | Nephropathy                   | Chronicprogr, Moderate  |
| * Liver           |  | Leukemia Mononuclear          |                         |
| * Lung            |  | Inflammation                  | Chronic Active, Minimal |
|                   |  | Leukemia Mononuclear          |                         |
| * Nose            | Olfactory Epi                          | Accumulation, Hyaline Droplet | Minimal                 |
| * Pituitary Gland | Pars Distalis                          | Hyperplasia                   | Minimal                 |
| * Prostate        | Dorsal, Lateral                        | Inflammation                  | Chronic Active, Minimal |
| * Spleen          |  | Leukemia Mononuclear          |                         |
|                   |  | Necrosis                      | Mild                    |
|                   | [ Leukemia Mononuclear TGLs = 1 - 18 ] |                               |                         |
|                   | [ Necrosis TGLs = 2- 18 ]              |                               |                         |
| * Thymus          |  | Atrophy                       | Mild                    |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 624

DOSE: 1000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Epididymis
- \* 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
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testis
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Esophagus
- \* Mammary Gland

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Moderate
- \* Heart
- Cardiomyopathy
- Minimal
- \* Islets, Pancreatic
- Adenoma
- [ Adenoma TGLs = 3 - 20 ]
- \* Kidney
- Nephropathy
- Chronicprogr, Mild
- \* Liver
- Eosinophilic Focus
- \* Lung
- Infiltration Cellular
- Histiocyte, Minimal
- \* Nose
- Olfactory Epi
- Accumulation, Hyaline Droplet
- Mild
- \* Pancreas
- Acinus
- Hyperplasia
- Minimal
- Penis
- Prolapse
- Ulcer
- Mild
- [ Prolapse TGLs = 2 - 19 ]
- \* Pituitary Gland
- Pars Distalis
- Hyperplasia
- Minimal
- \* Skin
- Subcut Tiss
- Fibroma
- [ Fibroma TGLs = 1 - 18 ]
- \* Spleen
- Extramedullary Hematopoiesis
- Moderate
- \* Thymus
- Pigment
- Minimal
- \* Thyroid Gland
- C Cell
- Atrophy
- Moderate
- Adenoma

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 736

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300147

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      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

OBSERVATIONS

- |               |                         |                               |                          |
|---------------|-------------------------|-------------------------------|--------------------------|
| * Bone Marrow |                         | Congestion                    | Mild                     |
|               |                         | Hypercellularity              | Minimal                  |
| * Brain       |                         | Glioma Malignant              |                          |
| * Heart       |                         | Cardiomyopathy                | Minimal                  |
| * Kidney      |                         | Nephropathy                   | Chronicprogr, Moderate   |
| * Liver       | Bile Duct               | Hyperplasia                   | Minimal                  |
| * Lung        |                         | Inflammation                  | Chronic Active, Minimal  |
| * Nose        | Olfactory Epi           | Accumulation, Hyaline Droplet | Minimal                  |
| * Skin        |                         | Inflammation                  | Chronic Active, Moderate |
|               | Subcut Tiss             | Osteosarcoma                  |                          |
|               |                         | Ulcer                         | Moderate                 |
|               | [ Ulcer TGLs = 1 - 18 ] |                               |                          |
| * Spleen      |                         | Extramedullary Hematopoiesis  | Mild                     |
|               |                         | Pigment                       | Mild                     |
| * Testis      | Bilateral               | Edema                         | Minimal                  |
| * Thymus      |                         | Atrophy                       | Mild                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 308

DOSE: 1000 ppm Male

DISP: Natural Death

HISTO: 1300148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * 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      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      |
| * Pancreas               | * Parathyroid Gland        | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testis                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

OBSERVATIONS

- |                          |               |                   |                       |
|--------------------------|---------------|-------------------|-----------------------|
| * Bone Marrow            |               | Hypercellularity  | Minimal               |
| * Heart                  |               | Cardiomyopathy    | Minimal               |
| * Intestine Large, Colon |               | Parasite Metazoan |                       |
| * Kidney                 |               | Nephropathy       | Chronicprogr, Minimal |
| * Liver                  |               | Necrosis          | Minimal               |
| * Pituitary Gland        | Pars Distalis | Hypertrophy       | Mild                  |
| * Spleen                 | White Pulp    | Atrophy           | Mild                  |
|                          |               | Pigment           | Moderate              |
| * Thymus                 |               | Atrophy           | Mild                  |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Epididymis
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- \* Thyroid Gland
- Bilateral, Duct
- Bilateral
- Olfactory Epi
- Pars Distalis
- Germinal Epith
- Bilateral
- C Cell
- Hyperplasia
- Exfoliated Germ Cell
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Eosinophilic Focus
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Edema
- Atrophy
- Hyperplasia
- Marked
- Mild
- Moderate
- Minimal
- Chronicprogr, Mild
- Histiocyte, Minimal
- Mild
- Minimal
- Mild
- Minimal
- Moderate
- Mild
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 733

DOSE: 1000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300150

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	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland	Duct	Hyperplasia	Squamous, Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Edema	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 707

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300151

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, Mesenteric    | * Mammary Gland          | * Parathyroid Gland        |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Stomach, Glandular        | * Testis                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

- |                          |                                   |                               |                         |
|--------------------------|-----------------------------------|-------------------------------|-------------------------|
| * Adrenal Cortex         |                                   | Leukemia Mononuclear          |                         |
| * Adrenal Medulla        |                                   | Leukemia Mononuclear          |                         |
| * Bone Marrow            |                                   | Leukemia Mononuclear          |                         |
| * Brain                  |                                   | Myelofibrosis                 | Minimal                 |
|                          |                                   | Hemorrhage                    | Moderate                |
|                          |                                   | Leukemia Mononuclear          |                         |
|                          | [ Hemorrhage TGLs = 2,3 - 3+4+5 ] |                               |                         |
| * Heart                  |                                   | Leukemia Mononuclear          |                         |
| * Kidney                 |                                   | Leukemia Mononuclear          |                         |
|                          |                                   | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver                  |                                   | Leukemia Mononuclear          |                         |
| * Lung                   |                                   | Inflammation                  | Chronic Active, Minimal |
|                          |                                   | Leukemia Mononuclear          |                         |
| * Lymph Node, Mandibular |                                   | Leukemia Mononuclear          |                         |
| Mesentery                |                                   | Hemorrhage                    | Marked                  |
|                          | [ Hemorrhage TGLs = 4 - 19 ]      |                               |                         |
| * Nose                   | Olfactory Epi                     | Accumulation, Hyaline Droplet | Moderate                |
| * Pancreas               |                                   | Leukemia Mononuclear          |                         |
| * Pituitary Gland        | Pars Distalis                     | Adenoma                       |                         |
|                          |                                   | Leukemia Mononuclear          |                         |
| * Spleen                 |                                   | Extramedullary Hematopoiesis  | Mild                    |
|                          |                                   | Leukemia Mononuclear          |                         |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 151

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 707

**DOSE:** 3000 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300151

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Leukemia Mononuclear TGLs = 1 - 18 ]

\* Stomach, Forestomach

Epithelium

Hyperplasia

Minimal

Inflammation

Chronic, Minimal

\* Thymus

Atrophy

Marked

---

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Brain Hemorrhage

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300152

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      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Parathyroid Gland         | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Spleen                 |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Testis                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

OBSERVATIONS

- |                   |                     |                               |                      |
|-------------------|---------------------|-------------------------------|----------------------|
| * Kidney          |                     | Nephropathy                   | Chronicprogr, Mild   |
| * Liver           |                     | Clear Cell Focus              |                      |
|                   | Hepatocyte          | Cytoplasmic Alteration        | Minimal              |
|                   |                     | Pigment                       | Mild                 |
| * Nose            | Olfactory Epi       | Accumulation, Hyaline Droplet | Mild                 |
|                   | Olfactory Epi       | Metaplasia                    | Respiratory, Minimal |
| * Pancreas        | Acinus              | Hyperplasia                   | Mild                 |
| * Pituitary Gland | Pars Distalis       | Hyperplasia                   | Minimal              |
| * Prostate        | Epithelium, Ventral | Hyperplasia                   | Moderate             |
| * Thymus          |                     | Atrophy                       | Mild                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300153

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
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow: Hypercellularity (Mild)
- \* Epididymis: Bilateral, Duct (Exfoliated Germ Cell, Mild); Bilateral (Hypospermia, Marked)
- \* Heart: Cardiomyopathy (Moderate); Valve (Fibrosis, Minimal; Thrombus, Minimal)
- \* Intestine Large, Rectum: Polyarteritis Nodosa (Mild)
- \* Kidney: Nephropathy (Chronicprogr, Moderate) [Nephropathy TGLs = 2 - 8]
- \* Liver: Degeneration (Cystic, Minimal); Bile Duct (Dilation, Moderate) [Dilation TGLs = 3 - 20]
- \* Lung: Inflammation (Chronic Active, Moderate)
- \* Nose: Accumulation, Hyaline Droplet (Moderate)
- \* Pancreas: Hyperplasia (Moderate); Polyarteritis Nodosa (Moderate)
- \* Pituitary Gland: Pars Distalis (Hyperplasia, Marked) [Hyperplasia TGLs = 5 - 11]
- \* Prostate: Inflammation (Chronic Active, Moderate)
- \* Seminal Vesicle: Inflammation (Chronic Active, Minimal)
- \* Spleen: Extramedullary Hematopoiesis (Mild); Pigment (Mild)

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

---

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300153

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ORGAN AND ACCOUNTABLE SITE STATUS

---

* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Polyarteritis Nodosa	Moderate
[ Degeneration	TGLs = 4 - 16+17 ]		
* Thymus		Atrophy	Mild

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 644

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| 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         | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

OBSERVATIONS

- |                   |   |                               |                         |
|-------------------|---|-------------------------------|-------------------------|
| * Adrenal Cortex  |   | Hypertrophy                   | Focal, Mild             |
| * Adrenal Medulla |   | Pheochromocytoma Benign       |                         |
|                   | [ Pheochromocytoma Benign TGLs = 2 - 11 ] |                               |                         |
| * Bone Marrow     |   | Hypercellularity              | Mild                    |
| * Heart           |   | Cardiomyopathy                | Minimal                 |
| * Kidney          |   | Nephropathy                   | Chronicprogr, Mild      |
| * Liver           |   | Clear Cell Focus              |                         |
|                   | Hepatocyte                                | Cytoplasmic Alteration        | Mild                    |
|                   |   | Pigment                       | Minimal                 |
| * Lung            |   | Infiltration Cellular         | Histiocyte, Minimal     |
|                   | [ Infiltration Cellular TGLs = 3 - 6+7 ]  |                               |                         |
| * Nose            | Olfactory Epi                             | Accumulation, Hyaline Droplet | Minimal                 |
| * Pituitary Gland | Pars Distalis                             | Hyperplasia                   | Mild                    |
| * Prostate        | Dorsal, Lateral                           | Inflammation                  | Chronic Active, Minimal |
| * Spleen          |   | Extramedullary Hematopoiesis  | Mild                    |
|                   |   | Pigment                       | Mild                    |
| * Testis          | Bilateral, Germinal Epith                 | Degeneration                  | Minimal                 |
|                   | Bilateral                                 | Edema                         | Minimal                 |
|                   | Interstit Cell                            | Hyperplasia                   | Moderate                |
| * Thymus          |   | Atrophy                       | Moderate                |

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Benign

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300155

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   |
| * Thyroid Gland            | * Trachea                | * Urinary Bladder           |                          |

OBSERVATIONS

- |                           |                           |                               |                       |
|---------------------------|---------------------------|-------------------------------|-----------------------|
| * Adrenal Medulla         |                           | Hyperplasia                   | Focal, Moderate       |
| * Bone Marrow             |                           | Hypercellularity              | Mild                  |
| * Heart                   |                           | Cardiomyopathy                | Mild                  |
| * Intestine Large, Rectum |                           | Parasite Metazoan             |                       |
| * Kidney                  |                           | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                   |                           | Clear Cell Focus              |                       |
|                           | Hepatocyte                | Cytoplasmic Alteration        | Minimal               |
|                           |                           | Pigment                       | Mild                  |
| * Lung                    |                           | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose                    | Olfactory Epi             | Accumulation, Hyaline Droplet | Moderate              |
| * Pancreas                | Acinus                    | Adenoma                       |                       |
|                           | Acinus                    | Hyperplasia                   | Minimal               |
|                           | [ Adenoma TGLs = 1 - 18 ] |                               |                       |
| * Pituitary Gland         | Pars Distalis             | Hyperplasia                   | Minimal               |
|                           | Pars Distalis             | Hypertrophy                   | Minimal               |
| * Spleen                  |                           | Extramedullary Hematopoiesis  | Mild                  |
|                           |                           | Pigment                       | Minimal               |
| * Stomach, Glandular      |                           | Mineral                       | Minimal               |
| * Testis                  | Interstit Cell            | Adenoma                       |                       |
|                           | Bilateral, Germinal Epith | Degeneration                  | Minimal               |
|                           | Bilateral                 | Edema                         | Mild                  |
| * Thymus                  |                           | Atrophy                       | Moderate              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone	Cartilage, Joint	Degeneration	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
		Pigment	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral	Edema	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300157

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         | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           |

OBSERVATIONS

- |                   |                                     |                               |                        |
|-------------------|-------------------------------------|-------------------------------|------------------------|
| * Adrenal Cortex  |                                     | Hyperplasia                   | Minimal                |
|                   |                                     | Hypertrophy                   | Focal, Mild            |
| * Bone Marrow     |                                     | Hypercellularity              | Minimal                |
| * Heart           |                                     | Cardiomyopathy                | Minimal                |
| * Kidney          |                                     | Nephropathy                   | Chronicprogr, Mild     |
| * Liver           |                                     | Basophilic Focus              |                        |
|                   |                                     | Cholangiofibrosis             | Marked                 |
|                   |                                     | Clear Cell Focus              |                        |
|                   |                                     | Degeneration                  | Cystic, Minimal        |
|                   | Bile Duct                           | Hyperplasia                   | Marked                 |
|                   |                                     | Pigment                       | Mild                   |
|                   | [ Cholangiofibrosis TGLs = 1 - 18 ] |                               |                        |
| * Lung            |                                     | Infiltration Cellular         | Histiocyte, Mild       |
|                   |                                     | Inflammation                  | Granulomatous, Minimal |
| * Nose            | Olfactory Epi                       | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas        | Acinus                              | Adenoma                       | Multiple               |
|                   | Acinus                              | Atrophy                       | Minimal                |
|                   | Acinus                              | Hyperplasia                   | Marked                 |
|                   | [ Adenoma TGLs = 2 - 19 ]           |                               |                        |
| * Pituitary Gland | Pars Distalis                       | Hyperplasia                   | Mild                   |
| * Spleen          |                                     | Extramedullary Hematopoiesis  | Mild                   |
|                   |                                     | Pigment                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 157

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300157

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300158

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	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testis	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Hyperplasia	Minimal
	Olfactory Epi	Metaplasia	Respiratory, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 680

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300159

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	* 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	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Bone Marrow		Hypercellularity	Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
[ Adenoma TGLs = 4 - 21 ]			
* Kidney		Inflammation	Chronic, Mild
		Nephropathy	Chronicprogr, Mild
	Papilla	Polyp Adenomatous	
[ Inflammation TGLs = 2- 19 ]			
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Pigment	Minimal
[ Hepatodiaphragmatic Nodule TGLs = 3 - 20 ]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
[ Hemorrhage TGLs = 1 - 18 ]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Glands	Dilation	Minimal
* Pancreas	Acinus	Adenoma	
[ Adenoma TGLs = 5 - 22 ]			
* Spleen		Accessory Spleen	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 159

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 680

**DOSE:** 3000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300159

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Extramedullary Hematopoiesis

Mild

Pigment

Mild

Note: Accessory spleen(s) in B22 with acinar adenoma.

Atrophy

Mild

\* Thymus

---

PRIMARY CAUSE OF DEATH

- Islets, Pancreatic Adenoma

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 734

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300160

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	* 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
* Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
	Artery	Polyarteritis Nodosa	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
		Pigment	Minimal
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
		Pigment	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
		Inflammation	Chronic Active, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300161

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                | * Parathyroid Gland         | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Testis                    | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                   |  |                               |                         |
|-------------------|--|-------------------------------|-------------------------|
| * Heart           | Vein                                     | Mineral                       | Minimal                 |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Mild      |
| * Liver           |  | Clear Cell Focus              |                         |
|                   | Hepatocyte                               | Cytoplasmic Alteration        | Minimal                 |
|                   |  | Pigment                       | Mild                    |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate    |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                         |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                 |
|                   |  | Inflammation                  | Chronic Active, Minimal |
|                   | Olfactory Epi                            | Metaplasia                    | Respiratory, Minimal    |
| * Pituitary Gland | Pars Intermed                            | Hyperplasia                   | Mild                    |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                    |
|                   |  | Pigment                       | Minimal                 |
| * Thymus          |  | Atrophy                       | Mild                    |
| * Thyroid Gland   | C Cell                                   | Adenoma                       |                         |
|                   | C Cell                                   | Hyperplasia                   | Mild                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300162

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         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

OBSERVATIONS

- |                   |                           |                               |                        |
|-------------------|---------------------------|-------------------------------|------------------------|
| * Adrenal Medulla |                           | Hyperplasia                   | Focal, Minimal         |
| * Heart           |                           | Schwannoma Malignant          |                        |
| * Kidney          |                           | Nephropathy                   | Chronicprogr, Moderate |
| * Liver           |                           | Clear Cell Focus              |                        |
|                   | Hepatocyte                | Cytoplasmic Alteration        | Minimal                |
|                   | Bile Duct                 | Hyperplasia                   | Minimal                |
|                   |                           | Pigment                       | Minimal                |
| * Lung            |                           | Infiltration Cellular         | Histiocyte, Minimal    |
| * Nose            | Olfactory Epi             | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas        | Acinus                    | Adenoma                       | Multiple               |
|                   | Acinus                    | Hyperplasia                   | Marked                 |
|                   | [ Adenoma TGLs = 1 - 18 ] |                               |                        |
| * Pituitary Gland | Pars Distalis             | Hyperplasia                   | Minimal                |
| * Spleen          |                           | Extramedullary Hematopoiesis  | Mild                   |
|                   |                           | Pigment                       | Minimal                |
| * Testis          | Interstit Cell            | Adenoma                       |                        |
| * Thymus          |                           | Lymphoma Malignant            |                        |
| * Thyroid Gland   | C Cell                    | Hyperplasia                   | Minimal                |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 677

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* 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
- \* Lung
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Pancreas
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Skin
- \* Testis
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
  - Blood Vessel
    - Aorta: Hyperplasia (Minimal)
    - Pulmn Vein: Mineral (Marked)
    - Pulmn Artery: Mineral (Marked)
- \* Bone Marrow: Hypercellularity (Mild)
- \* Epididymis: Bilateral, Duct: Exfoliated Germ Cell (Minimal)
- \* Heart: Cardiomyopathy (Moderate)
- \* Kidney: Mineral (Moderate)
- \* Kidney: Nephropathy (Chronicprogr, Marked)
- \* Kidney [ Nephropathy TGLs = 1 - 8 ]
- \* Liver
  - Bile Duct
    - Basophilic Focus
    - Hyperplasia (Minimal)
    - Pigment (Mild)
- \* Parathyroid Gland: Bilateral: Hyperplasia (Diffuse, Marked)
- \* Pituitary Gland: Pars Distalis: Hyperplasia (Minimal)
- \* Seminal Vesicle: Mineral (Mild)
- \* Spleen: White Pulp
  - Atrophy (Moderate)
  - Extramedullary Hematopoiesis (Minimal)
  - Pigment (Minimal)
- \* Stomach, Forestomach: Mineral (Minimal)
- \* Stomach, Glandular: Mineral (Moderate)
- \* Thymus: Atrophy (Marked)

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

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**ANIMAL ID:** 164

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 677

**DOSE:** 3000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300164

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Kidney Nephropathy  
CONTRIBUTORY CAUSE OF DEATH - Heart Cardiomyopathy

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300165

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 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       | * Testis                 |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                          |

OBSERVATIONS

- |                           |   |                               |                        |
|---------------------------|---|-------------------------------|------------------------|
| * Adrenal Medulla         |   | Pheochromocytoma Benign       |                        |
|                           | [ Pheochromocytoma Benign TGLs = 1 - 11 ] |                               |                        |
| * Intestine Large, Rectum |   | Parasite Metazoan             |                        |
| * Islets, Pancreatic      |   | Adenoma                       |                        |
| * Kidney                  |   | Nephropathy                   | Chronicprogr, Mild     |
| * Liver                   |   | Clear Cell Focus              |                        |
|                           | Hepatocyte                                | Cytoplasmic Alteration        | Minimal                |
|                           | Hepatocyte                                | Hypertrophy                   | Minimal                |
|                           |   | Pigment                       | Mild                   |
| * Lung                    |   | Infiltration Cellular         | Histiocyte, Minimal    |
|                           |   | Inflammation                  | Granulomatous, Minimal |
| * Nose                    | Olfactory Epi                             | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas                | Acinus                                    | Adenoma                       |                        |
| * Spleen                  |   | Extramedullary Hematopoiesis  | Mild                   |
|                           |   | Pigment                       | Mild                   |
| * Thymus                  |   | Atrophy                       | Moderate               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 681

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	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	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Eye	Cornea	Inflammation	Chronic Active, Moderate
	Cornea	Necrosis	Mild
* Heart		Cardiomyopathy	Mild
		Lymphoma Malignant	
* Kidney	Renal Tubule	Necrosis	Mild
		Nephropathy	Chronicprogr, Marked
	[ Nephropathy TGLs = 1 - 8 ]		
* Liver	Hepatocyte	Clear Cell Focus	
		Cytoplasmic Alteration	Mild
		Degeneration	Cystic, Minimal
		Infiltration Cellular	Lymphoid, Mild
		Necrosis	Minimal
		Pigment	Minimal
* Lung		Infiltration Cellular	Lymphoid, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
		Inflammation	Acute, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
* Pancreas	Acinus	Adenoma	Multiple
		Infiltration Cellular	Lymphoid, Mild
	[ Adenoma TGLs = 2 - 18 ]		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**ANIMAL ID:** 166

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 681

**DOSE:** 3000 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300166

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
	Pars Distalis	Necrosis	Minimal
* Seminal Vesicle		Infiltration Cellular	Lymphoid, Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
* Stomach, Glandular		Mineral	Moderate
* Testis	Germinal Epith	Degeneration	Minimal
		Edema	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH - Heart Lymphoma Malignant





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 734

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300168

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
* 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	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Moderate
	Hepatocyte	Hypertrophy	Minimal
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Hypertrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral	Edema	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 734

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | Blood Vessel               | * 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       | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

OBSERVATIONS

- |                   |                                |                               |                    |
|-------------------|--------------------------------|-------------------------------|--------------------|
| * Adrenal Medulla |                                | Hyperplasia                   | Focal, Mild        |
| * Bone            | Cartilage, Joint               | Degeneration                  | Minimal            |
| * Heart           |                                | Cardiomyopathy                | Minimal            |
| * Kidney          |                                | Nephropathy                   | Chronicprogr, Mild |
| * Liver           | Hepatocyte                     | Cytoplasmic Alteration        | Minimal            |
|                   |                                | Pigment                       | Minimal            |
| * Lung            |                                | Inflammation                  | Acute, Minimal     |
| * Nose            | Olfactory Epi                  | Accumulation, Hyaline Droplet | Minimal            |
| * Pancreas        | Acinus                         | Adenoma                       | Multiple           |
|                   | Acinus                         | Carcinoma                     |                    |
|                   | Acinus                         | Hyperplasia                   | Marked             |
|                   | [ Adenoma TGLs = 1,2 - 18+19 ] |                               |                    |
| * Pituitary Gland | Pars Distalis                  | Hyperplasia                   | Marked             |
|                   | Pars Distalis                  | Hypertrophy                   | Minimal            |
| * Preputial Gland | Duct                           | Hyperplasia                   | Squamous, Minimal  |
| * Spleen          |                                | Extramedullary Hematopoiesis  | Mild               |
|                   |                                | Pigment                       | Minimal            |
| * Testis          | Interstit Cell                 | Adenoma                       |                    |
|                   | Bilateral, Germinal Epith      | Degeneration                  | Minimal            |
|                   |                                | Edema                         | Minimal            |
| * Thymus          |                                | Atrophy                       | Moderate           |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 734

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300170

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       |
| * Testis                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                   |  |                               |                      |
|-------------------|--|-------------------------------|----------------------|
| * Heart           |  | Cardiomyopathy                | Minimal              |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Mild   |
| * Liver           |  | Clear Cell Focus              |                      |
|                   | Hepatocyte                               | Cytoplasmic Alteration        | Mild                 |
|                   |  | Pigment                       | Minimal              |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                      |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                 |
| * Pancreas        | Acinus                                   | Hyperplasia                   | Minimal              |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal              |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                 |
|                   |  | Pigment                       | Minimal              |
| * Thymus          |  | Atrophy                       | Moderate             |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 605

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300171

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      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Spleen                    |
| * Stomach, Forestomach   | * Trachea                  | * Urinary Bladder         |                             |

OBSERVATIONS

- |                      |                           |                       |                      |
|----------------------|---------------------------|-----------------------|----------------------|
| * Bone Marrow        |                           | Hypercellularity      | Mild                 |
| * Brain              |                           | Hemorrhage            | Mild                 |
|                      |                           | Inflammation          | Acute, Mild          |
| * Heart              |                           | Inflammation          | Acute, Moderate      |
|                      | Valve                     | Thrombus              | Moderate             |
| * Kidney             |                           | Inflammation          | Chronic Active, Mild |
| * Liver              |                           | Degeneration          | Cystic, Minimal      |
|                      |                           | Necrosis              | Minimal              |
| * Lung               |                           | Infiltration Cellular | Histiocyte, Mild     |
| * Stomach, Glandular |                           | Inflammation          | Acute, Minimal       |
|                      |                           | Thrombus              | Minimal              |
| * Testis             | Bilateral, Germinal Epith | Degeneration          | Minimal              |
| * Thymus             |                           | Atrophy               | Marked               |
| * Thyroid Gland      |                           | Inflammation          | Acute, Minimal       |

PRIMARY CAUSE OF DEATH - Heart Valve Thrombus

CONTRIBUTORY CAUSE OF DEATH - Brain Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 734

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300172

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	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
		Pigment	Mild
	[ Mixed Cell Focus TGLs = 1 - 19 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Moderate
	Bilateral	Edema	Moderate
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300173

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          | * Parathyroid Gland        | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |

OBSERVATIONS

- |                      |                           |                               |                     |
|----------------------|---------------------------|-------------------------------|---------------------|
| * Bone Marrow        |                           | Hypercellularity              | Mild                |
| * Heart              |                           | Cardiomyopathy                | Minimal             |
| * Islets, Pancreatic |                           | Hyperplasia                   | Moderate            |
| * Kidney             |                           | Nephropathy                   | Chronicprogr, Mild  |
| * Liver              |                           | Clear Cell Focus              |                     |
|                      |                           | Necrosis                      | Minimal             |
|                      |                           | Pigment                       | Minimal             |
| * Lung               |                           | Infiltration Cellular         | Histiocyte, Minimal |
| * Nose               | Olfactory Epi             | Accumulation, Hyaline Droplet | Mild                |
| * Pancreas           | Acinus                    | Hyperplasia                   | Mild                |
| * Pituitary Gland    | Pars Distalis             | Adenoma                       |                     |
|                      | [ Adenoma TGLs = 1 - 11 ] |                               |                     |
| * Spleen             |                           | Extramedullary Hematopoiesis  | Mild                |
|                      |                           | Pigment                       | Minimal             |
| * Testis             |                           | Edema                         | Minimal             |
| * Thymus             |                           | Atrophy                       | Mild                |
| * Thyroid Gland      | C Cell                    | Adenoma                       |                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300174

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        |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

- |                      |   |                               |                        |
|----------------------|---|-------------------------------|------------------------|
| * Heart              |   | Cardiomyopathy                | Mild                   |
| * Islets, Pancreatic |   | Adenoma                       |                        |
| * Kidney             |   | Nephropathy                   | Chronicprogr, Moderate |
| * Liver              |   | Clear Cell Focus              |                        |
|                      | Hepatocyte  | Cytoplasmic Alteration        | Minimal                |
|                      |   | Pigment                       | Mild                   |
| * Lung               |   | Infiltration Cellular         | Histiocyte, Minimal    |
| * Nose               | Olfactory Epi   | Accumulation, Hyaline Droplet | Mild                   |
| * Pancreas           | Acinus  | Adenoma                       | Multiple               |
|                      | Acinus  | Hyperplasia                   | Marked                 |
|                      | [ Adenoma TGLs = 1,2 - 18+19 ]                                      |                               |                        |
| * Pituitary Gland    | Pars Distalis   | Hyperplasia                   | Mild                   |
| * Spleen             |   | Extramedullary Hematopoiesis  | Mild                   |
|                      |   | Lipoma                        |                        |
|                      |   | Pigment                       | Mild                   |
|                      | Note: Myelolipoma (has bone marrow elements as well as adipocytes). |                               |                        |
|                      | [ Lipoma TGLs = 3 - 20 ]  |                               |                        |
| * Testis             | Interstit Cell  | Adenoma                       |                        |
|                      | Bilateral, Germinal Epith   | Degeneration                  | Minimal                |
|                      | Bilateral   | Polyarteritis Nodosa          | Mild                   |
| * Thymus             |   | Atrophy                       | Moderate               |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 734

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

OBSERVATIONS

- |                             |                           |                               |                            |
|-----------------------------|---------------------------|-------------------------------|----------------------------|
| * Adrenal Cortex            | Bilateral                 | Hypertrophy                   | Focal, Mild                |
| * Bone Marrow               |                           | Hypercellularity              | Mild                       |
| * Kidney                    |                           | Nephropathy                   | Chronicprogr, Moderate     |
| * Liver                     |                           | Clear Cell Focus              |                            |
|                             | Hepatocyte                | Cytoplasmic Alteration        | Minimal                    |
|                             |                           | Pigment                       | Mild                       |
| * Lung                      |                           | Carcinoma                     | Metastatic (Thyroid Gland) |
|                             |                           | Infiltration Cellular         | Histiocyte, Minimal        |
| Lymph Node                  | Deep Cervical             | Carcinoma                     | Metastatic (Thyroid Gland) |
| [ Carcinoma TGLs = 2 - 19 ] |                           |                               |                            |
| * Nose                      | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal                    |
| * Pancreas                  | Acinus                    | Adenoma                       | Multiple                   |
| [ Adenoma TGLs = 3 - 20 ]   |                           |                               |                            |
| * Pituitary Gland           | Pars Distalis             | Adenoma                       |                            |
|                             | Pars Distalis             | Hypertrophy                   | Minimal                    |
| * Spleen                    |                           | Extramedullary Hematopoiesis  | Mild                       |
|                             |                           | Pigment                       | Mild                       |
| * Testis                    | Bilateral, Germinal Epith | Degeneration                  | Minimal                    |
|                             | Bilateral                 | Edema                         | Minimal                    |
| * Thymus                    |                           | Atrophy                       | Marked                     |
| * Thyroid Gland             | C Cell                    | Carcinoma                     |                            |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

---

**ANIMAL ID:** 175

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300175

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Carcinoma TGLs = 1 - 18 ]

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 734

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300176

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            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                   |                |                              |                        |
|-------------------|----------------|------------------------------|------------------------|
| * Heart           |                | Cardiomyopathy               | Minimal                |
| * Kidney          |                | Nephropathy                  | Chronicprogr, Moderate |
| * Liver           |                | Clear Cell Focus             |                        |
|                   | Hepatocyte     | Cytoplasmic Alteration       | Minimal                |
|                   | Bile Duct      | Hyperplasia                  | Minimal                |
|                   |                | Pigment                      | Mild                   |
| * Lung            |                | Infiltration Cellular        | Histiocyte, Minimal    |
|                   |                | Inflammation                 | Granulomatous, Minimal |
| * Pituitary Gland | Pars Distalis  | Hypertrophy                  | Minimal                |
| * Spleen          |                | Extramedullary Hematopoiesis | Mild                   |
|                   |                | Pigment                      | Mild                   |
| * Testis          | Interstit Cell | Hyperplasia                  | Mild                   |
| * Thymus          |                | Atrophy                      | Moderate               |
| * Thyroid Gland   | C Cell         | Hyperplasia                  | Minimal                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300177

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, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Congestion	Mild
		Hypercellularity	Moderate
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver	Hepatocyte	Clear Cell Focus	
		Cytoplasmic Alteration	Minimal
		Mixed Cell Focus	
		Pigment	Mild
	[ Mixed Cell Focus TGLs = 3 - 20 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Granulomatous, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphocyte, Mild
Mesentery		Polyarteritis Nodosa	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Pancreas	Acinus	Adenoma	Multiple
	Acinus	Atrophy	Mild
	Acinus	Hyperplasia	Marked
		Polyarteritis Nodosa	Mild
	[ Adenoma TGLs = 1,2 - 9+18+19 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Extramedullary Hematopoiesis	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 177

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300177

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testis	Bilateral	Pigment	Minimal
* Thymus		Polyarteritis Nodosa	Mild
		Atrophy	Moderate

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 691

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* 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
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- Blood Vessel Aorta Mineral Minimal
- \* Bone Marrow Hypercellularity Moderate
- \* Heart Cardiomyopathy Minimal
- \* Kidney Nephropathy Chronicprogr, Moderate
- \* Liver Pigment Minimal
- \* Lung Infiltration Cellular Histiocyte, Minimal
- \* Nose Olfactory Epi Accumulation, Hyaline Droplet Minimal
- \* Pancreas Acinus Adenoma
- [ Adenoma TGLs = 3 - 19 ]
- \* Pituitary Gland Pars Distalis Adenoma
- [ Adenoma TGLs = 2 - 11 ]
- \* Skin Subcut Tiss Fibroma
- [ Fibroma TGLs = 1 - 18 ]
- \* Spleen Extramedullary Hematopoiesis Mild
- Pigment Minimal
- \* Stomach, Forestomach Epithelium Dysplasia Minimal
- \* Testis Interstit Cell Adenoma
- Bilateral Edema Minimal
- \* Thymus Atrophy Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 614

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300179

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           |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |               |                |                              |                       |
|---------------|----------------|------------------------------|-----------------------|
| * Bone Marrow |                | Hypercellularity             | Minimal               |
| * Heart       |                | Cardiomyopathy               | Minimal               |
| * Kidney      |                | Nephropathy                  | Chronicprogr, Minimal |
| * Liver       |                | Necrosis                     | Minimal               |
|               |                | Pigment                      | Minimal               |
| * Spleen      |                | Extramedullary Hematopoiesis | Mild                  |
|               |                | Pigment                      | Minimal               |
| * Testis      | Germinal Epith | Degeneration                 | Minimal               |
|               | Bilateral      | Edema                        | Minimal               |
| * Thymus      |                | Atrophy                      | Moderate              |

PRIMARY CAUSE OF DEATH - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 589

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Eye	Retina	Degeneration	Minimal
	Cornea	Inflammation	Chronic Active, Mild
		Squamous Cell Carcinoma	Metastatic (Oral Mucosa)
* Harderian Gland		Atrophy	Marked
		Inflammation	Chronic Active, Moderate
	Duct	Metaplasia	Squamous, Moderate
	[ Atrophy TGLs = 3 - 19 ]		
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Jejunum		Adenocarcinoma	
	[ Adenocarcinoma TGLs = 2 - 18 ]		
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
	Bile Duct	Hyperplasia	Minimal
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation	Suppurative, Moderate
Oral Mucosa		Squamous Cell Carcinoma	
	[ Squamous Cell Carcinoma TGLs = 4 - 1+2 ]		
* Pancreas	Acinus	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Moderate

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 180

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 589

**DOSE:** 3000 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300180

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Edema

Moderate

Atrophy

Moderate

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PRIMARY CAUSE OF DEATH

- Oral Mucosa Squamous Cell Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Intestine Small, Jejunum Adenocarcinoma

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Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300181

**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	* 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

**OBSERVATIONS**

* Adrenal Cortex		Adenoma	
* Bone Marrow		Hypercellularity	Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Adenoma	Multiple
	Acinus	Hyperplasia	Marked
	[ Adenoma TGLs = 1 - 18 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Hypertrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Edema	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300182

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	* 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	

OBSERVATIONS

* Adrenal Cortex	Bilateral	Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
	Artery	Mineral	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
		Pigment	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	Pars Distalis	Hypertrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | 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 | * Nose                     | * Pancreas                | * Parathyroid Gland         |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

OBSERVATIONS

- |                   |                                |                              |                    |
|-------------------|--------------------------------|------------------------------|--------------------|
| * Bone Marrow     |                                | Hypercellularity             | Minimal            |
| * Eye             | Retina                         | Dysplasia                    | Minimal            |
| * Heart           |                                | Cardiomyopathy               | Mild               |
| * Kidney          |                                | Nephropathy                  | Chronicprogr, Mild |
| * Liver           |                                | Clear Cell Focus             |                    |
|                   | Hepatocyte                     | Cytoplasmic Alteration       | Mild               |
|                   |                                | Pigment                      | Moderate           |
| * Lung            |                                | Infiltration Cellular        | Histiocyte, Mild   |
| * Mammary Gland   |                                | Fibroadenoma                 |                    |
|                   | [ Fibroadenoma TGLs = 1 - 18 ] |                              |                    |
| * Pituitary Gland | Pars Distalis                  | Hypertrophy                  | Minimal            |
| * Spleen          |                                | Extramedullary Hematopoiesis | Mild               |
|                   |                                | Pigment                      | Mild               |
| * Testis          | Bilateral, Germinal Epith      | Degeneration                 | Mild               |
|                   | Bilateral                      | Edema                        | Minimal            |
| * Thymus          |                                | Atrophy                      | Mild               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 733

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Brain                  | * Epididymis               | * Esophagus               | * Eye                       |
| * 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          | * Pancreas                 | * Parathyroid Gland       | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

OBSERVATIONS

- |                          |                                |                               |                          |
|--------------------------|--------------------------------|-------------------------------|--------------------------|
| * Bone Marrow            |                                | Hypercellularity              | Minimal                  |
| * Harderian Gland        |                                | Inflammation                  | Chronic Active, Moderate |
| * Heart                  |                                | Cardiomyopathy                | Minimal                  |
| * Kidney                 |                                | Nephropathy                   | Chronicprogr, Moderate   |
|                          | [ Nephropathy TGLs = 4- 20 ]   |                               |                          |
| * Liver                  |                                | Clear Cell Focus              |                          |
|                          | Hepatocyte                     | Cytoplasmic Alteration        | Minimal                  |
|                          |                                | Pigment                       | Mild                     |
| * Lung                   |                                | Infiltration Cellular         | Histiocyte, Minimal      |
| * Lymph Node, Mandibular |                                | Inflammation                  | Chronic Active, Marked   |
|                          | [ Inflammation TGLs = 1 - 18 ] |                               |                          |
| * Nose                   |                                | Accumulation, Hyaline Droplet | Minimal                  |
| * Pituitary Gland        |                                | Adenoma                       |                          |
|                          | [ Adenoma TGLs = 3 - 11 ]      |                               |                          |
| * Skin                   |                                | Fibroma                       |                          |
|                          | [ Fibroma TGLs = 2 - 19 ]      |                               |                          |
| * Spleen                 |                                | Extramedullary Hematopoiesis  | Minimal                  |
|                          |                                | Pigment                       | Mild                     |
| * Testis                 |                                | Edema                         | Minimal                  |
| * Thymus                 |                                | Atrophy                       | Mild                     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300185

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 |
| * 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        |                            |

OBSERVATIONS

- |                      |                           |                               |                    |
|----------------------|---------------------------|-------------------------------|--------------------|
| * Heart              |                           | Cardiomyopathy                | Mild               |
| * Islets, Pancreatic |                           | Adenoma                       |                    |
| * Kidney             |                           | Nephropathy                   | Chronicprogr, Mild |
| * Liver              |                           | Clear Cell Focus              |                    |
|                      | Hepatocyte                | Cytoplasmic Alteration        | Minimal            |
|                      |                           | Eosinophilic Focus            |                    |
|                      |                           | Pigment                       | Mild               |
| * Nose               | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal            |
| * Pancreas           | Acinus                    | Adenoma                       | Multiple           |
|                      | Acinus                    | Hyperplasia                   | Marked             |
|                      | [ Adenoma TGLs = 2 - 18 ] |                               |                    |
| * Pituitary Gland    | Pars Distalis             | Adenoma                       |                    |
|                      | [ Adenoma TGLs = 1 - 11 ] |                               |                    |
| * Spleen             |                           | Extramedullary Hematopoiesis  | Mild               |
|                      |                           | Pigment                       | Mild               |
| * Testis             | Bilateral, Germinal Epith | Degeneration                  | Minimal            |
|                      | Bilateral                 | Polyarteritis Nodosa          | Minimal            |
| * Thymus             |                           | Atrophy                       | Mild               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300186

**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	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Eye	Cornea	Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver	Hepatocyte	Clear Cell Focus	
		Cytoplasmic Alteration	Mild
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Necrosis	Minimal
		Pigment	Mild
	[ Eosinophilic Focus TGLs = 3 - 20 ]		
	[ Hepatocellular Adenoma TGLs = 1 -18 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Adenoma	Multiple
	Acinus	Hyperplasia	Marked
	[ Adenoma TGLs = 2 - 19 ]		
* Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

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ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300186

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ORGAN AND ACCOUNTABLE SITE STATUS

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* Testis	Bilateral, Germinal Epith	Degeneration	Mild
		Edema	Minimal
	Interstit Cell	Hyperplasia	Minimal
* Thymus		Atrophy	Mild

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300187

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       |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testis                    | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |                 |                                  |                               |                     |
|-----------------|----------------------------------|-------------------------------|---------------------|
| * Bone Marrow   |                                  | Hypercellularity              | Minimal             |
| * Heart         |                                  | Cardiomyopathy                | Mild                |
| * Kidney        |                                  | Nephropathy                   | Chronicprogr, Mild  |
| * Liver         | Hepatocyte                       | Cytoplasmic Alteration        | Minimal             |
|                 |                                  | Pigment                       | Mild                |
| * Lung          |                                  | Infiltration Cellular         | Histiocyte, Minimal |
| * Nose          | Olfactory Epi                    | Accumulation, Hyaline Droplet | Minimal             |
| * Pancreas      | Acinus                           | Adenoma                       | Multiple            |
|                 | Acinus                           | Hyperplasia                   | Marked              |
|                 | [ Adenoma TGLs = 1,2 - 9+18+19 ] |                               |                     |
| * Spleen        |                                  | Extramedullary Hematopoiesis  | Mild                |
|                 |                                  | Pigment                       | Mild                |
| * Thymus        |                                  | Atrophy                       | Moderate            |
| * Thyroid Gland | C Cell                           | Adenoma                       |                     |

PRIMARY CAUSE OF DEATH

- Pancreas Acinus Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 635

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Islets, Pancreatic
- \* Kidney
- [ Nephropathy TGLs = 2 - 8 ]
- \* Liver
- \* Nose
- \* Spleen
- \* Testis
- [ Degeneration TGLs = 1-16+16A+17 ]
- \* Thymus
- \* Thyroid Gland
- Hypertrophy
- Hypercellularity
- Hypospermia
- Cardiomyopathy
- Thrombus
- Atrophy
- Nephropathy
- Hepatocyte
- Olfactory Epi
- Bilateral, Germinal Epith
- Interstitial Cell
- Follicular Cel
- Cytoplasmic Alteration
- Pigment
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Degeneration
- Hyperplasia
- Atrophy
- Adenoma
- Focal, Mild
- Moderate
- Marked
- Minimal
- Mild
- Moderate
- Chronicprogr, Marked
- Moderate
- Mild
- Minimal
- Mild
- Marked
- Mild
- Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Brain
  - [ Hemorrhage TGLs = 5 - 3+4+5 ]
- \* Epididymis
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- Lymph Node
  - [ Leukemia Mononuclear TGLs = 4 - 20 ]
- \* Lymph Node, Mesenteric
  - [ Leukemia Mononuclear TGLs = 1 - 18 ]
- \* Nose
- \* Pituitary Gland
  - [ Adenoma TGLs = 3 - 11 ]
- \* Prostate
- \* Seminal Vesicle
- Leukemia Mononuclear
- Leukemia Mononuclear
- Hemorrhage
- Exfoliated Germ Cell
- Cardiomyopathy
- Nephropathy
- Leukemia Mononuclear
- Infiltration Cellular
- Leukemia Mononuclear
- Leukemia Mononuclear
- Lymphoma Malignant
- Leukemia Mononuclear
- Leukemia Mononuclear
- Inflammation
- Adenoma
- Leukemia Mononuclear
- Inflammation
- Inflammation
- Marked
- Mild
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Minimal
- Chronic Active, Minimal
- Chronic Active, Marked
- Chronic Active, Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 189

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 728

**DOSE:** 3000 ppm Male

**DISP:** Natural Death

**HISTO:** 1300189

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Spleen

Hemorrhage

Marked

Leukemia Mononuclear

[ Leukemia Mononuclear TGLs = 2 - 18+19 ]

\* Thymus

Atrophy

Moderate

---

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Brain Hemorrhage

---



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300191

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	* 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	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Adenoma	Multiple
	Acinus	Hyperplasia	Marked
	[ Adenoma TGLs = 1, 3 - 18+20 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 2 - 19 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Germinal Epith	Degeneration	Minimal
		Edema	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Heart
  - \* Intestine Large, Rectum
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Pancreas
  - \* Pituitary Gland
  - \* Spleen
  - \* Testis
  - \* Thymus
- [ Hyperplasia TGLs = 1- 19 ]
- Hepatocyte
  - Olfactory Epi
  - Acinus
  - Pars Distalis
- Cardiomyopathy
  - Parasite Metazoan
  - Nephropathy
  - Clear Cell Focus
  - Cytoplasmic Alteration
  - Pigment
  - Infiltration Cellular
  - Inflammation
  - Accumulation, Hyaline Droplet
  - Hyperplasia
  - Hyperplasia
  - Extramedullary Hematopoiesis
  - Pigment
  - Edema
  - Atrophy
- Minimal
  - Chronicprogr, Mild
  - Minimal
  - Mild
  - Histiocyte, Minimal
  - Granulomatous, Minimal
  - Mild
  - Marked
  - Moderate
  - Mild
  - Minimal
  - Minimal
  - Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 323

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300193

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	* 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
* Testis	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Brain		Necrosis	Marked
* Heart	Myocardium	Necrosis	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Necrosis	Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas	Acinus	Adenoma	
	Acinus	Hyperplasia	Marked
* Spleen	White Pulp	Atrophy	Mild
		Pigment	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Brain Necrosis

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 349

DOSE: 3000 ppm Male

DISP: Natural Death

HISTO: 1300194

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                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Testis                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |               |            |                        |                       |
|---------------|------------|------------------------|-----------------------|
| * Bone Marrow |            | Hypercellularity       | Minimal               |
| * Kidney      |            | Nephropathy            | Chronicprogr, Minimal |
| * Liver       | Hepatocyte | Cytoplasmic Alteration | Moderate              |
|               |            | Pigment                | Minimal               |
| * Lung        |            | Infiltration Cellular  | Histiocyte, Mild      |
| * Spleen      | White Pulp | Atrophy                | Mild                  |
|               |            | Pigment                | Mild                  |
| * Thymus      |            | Atrophy                | Mild                  |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300195

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          | * Prostate               |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach   |
| * Stomach, Glandular        | * Trachea                | * Urinary Bladder          |                          |

OBSERVATIONS

- |                           |                           |                               |                        |
|---------------------------|---------------------------|-------------------------------|------------------------|
| * Heart                   |                           | Cardiomyopathy                | Mild                   |
| * Intestine Large, Rectum |                           | Parasite Metazoan             |                        |
| * Kidney                  |                           | Nephropathy                   | Chronicprogr, Moderate |
| * Liver                   |                           | Clear Cell Focus              |                        |
|                           | Hepatocyte                | Cytoplasmic Alteration        | Minimal                |
|                           |                           | Pigment                       | Mild                   |
| * Nose                    | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal                |
| * Pituitary Gland         | Pars Distalis             | Hyperplasia                   | Mild                   |
|                           | Pars Distalis             | Hypertrophy                   | Minimal                |
| * 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 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 504

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Skin	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
Blood Vessel	Aorta	Lymphoma Malignant	
* Bone Marrow		Hypercellularity	Marked
* Epididymis	Bilateral, Duct	Exfoliated Germ Cell	Moderate
	Bilateral	Hypospermia	Moderate
* Eye		Lymphoma Malignant	
* Intestine Large, Cecum		Lymphoma Malignant	
* Intestine Large, Colon		Lymphoma Malignant	
* Intestine Small, Jejunum		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
		Lymphoma Malignant	
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
		Lymphoma Malignant	
Lymph Node	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	[ Lymphoma Malignant	TGLs = 5 - 22 ]	
	[ Lymphoma Malignant	TGLs = 2- 19 ]	
	[ Lymphoma Malignant	TGLs = 1 - 18 ]	
* Lymph Node, Mandibular		Lymphoma Malignant	
	[ Lymphoma Malignant	TGLs = 3 - 20 ]	
* Lymph Node, Mesenteric		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 504

DOSE: 3000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300196

ORGAN AND ACCOUNTABLE SITE STATUS

[ Lymphoma Malignant TGLs = 4 - 21 ]

\* Mammary Gland

Lymphoma Malignant

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

\* Pancreas

Lymphoma Malignant

[ Lymphoma Malignant TGLs = 6 - 9 ]

\* Prostate

Lymphoma Malignant

\* Salivary Glands

Lymphoma Malignant

\* Seminal Vesicle

Lymphoma Malignant

\* Spleen

Extramedullary Hematopoiesis

Minimal

Hemorrhage

Marked

Lymphoma Malignant

[ Hemorrhage TGLs = 7 - 23 ]

[ Lymphoma Malignant TGLs = 8 - 24 ]

\* Stomach, Forestomach

Lymphoma Malignant

\* Stomach, Glandular

Lymphoma Malignant

\* Testis

Lymphoma Malignant

\* Thymus

Lymphoma Malignant

\* Urinary Bladder

Lymphoma Malignant

PRIMARY CAUSE OF DEATH

- Pancreas Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300197

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Chronicprogr, Moderate
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
		Pigment	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Adenoma	Multiple
	[ Adenoma TGLs = 2 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Minimal
	Bilateral	Edema	Minimal
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 734

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
  - Bilateral
  - Hyperplasia
  - Hypertrophy
- \* Bone Marrow
  - Hypercellularity
- \* Heart
  - Cardiomyopathy
- \* Islets, Pancreatic
  - Hyperplasia
- \* Kidney
  - Nephropathy
- \* Liver
  - Clear Cell Focus
  - Hepatocyte
  - Bile Duct
  - Cytoplasmic Alteration
  - Hyperplasia
  - Pigment
- \* Lung
  - Hyperplasia
  - Infiltration Cellular
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Pancreas
  - Acinus
  - Acinus
  - Adenoma
  - Hyperplasia
- [ Adenoma TGLs = 2 - 19 ]
- \* Pituitary Gland
  - Pars Distalis
  - Hyperplasia
- \* Spleen
  - Extramedullary Hematopoiesis
  - Pigment
- \* Testis
  - Bilateral, Germinal Epith
  - Degeneration
  - Edema
- \* Thymus
  - Atrophy

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

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

**Date Report Requested:** 12/17/2019  
**Time Report Requested:** 10:43:08  
**First Dose M/F:** 02/17/11 / 02/18/11  
**Lab:** BAT

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**ANIMAL ID:** 199

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 3000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300199

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

C Cell

Hyperplasia

Mild

---



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 734

DOSE: 3000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300200

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
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex
- \* Brain
  - Note: Glioma of olfactory region.
- \* Heart
- \* Kidney
- \* Liver
  - Hepatocyte
- \* Lung
- \* Nose
- \* Pancreas
  - [ Adenoma TGLs = 1 - 18 ]
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- Hypertrophy
- Glioma Malignant
- Cardiomyopathy
- Infarct
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Hyperplasia
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Atrophy
- Focal, Minimal
- Minimal
- Minimal
- Chronicprogr, Mild
- Minimal
- Mild
- Histiocyte, Mild
- Chronic Active, Minimal
- Minimal
- Multiple
- Moderate
- Mild
- Minimal
- Mild
- Mild
- Moderate
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 201

TRT#: 9

SEX: Male

DAY ON TEST: 734

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300201

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* 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	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Epididymis	Bilateral, Duct	Exfoliated Germ Cell	Minimal
	Bilateral	Hypospermia	Marked
* Eye	Retina	Dysplasia	Minimal
* Heart	Valve	Fibrosis	Mild
	Valve	Thrombus	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Clear Cell Focus	
		Cytoplasmic Alteration	Marked
		Eosinophilic Focus	
	Bile Duct	Hepatocellular Carcinoma	
		Hyperplasia	Minimal
		Pigment	Mild
	[ Eosinophilic Focus TGLs = 2 - 19 ]		
	[ Hepatocellular Carcinoma TGLs = 1 - 18 ]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hypertrophy	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 201

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300201

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Prostate	Epithelium, Ventral	Hyperplasia	Marked
* Spleen		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Moderate
* Thymus		Atrophy	Minimal

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 202

TRT#: 9

SEX: Male

DAY ON TEST: 734

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300202

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
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Heart
  - \* Intestine Large, Rectum
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Pancreas
  - \* Pituitary Gland
  - \* Salivary Glands
  - \* Spleen
- Bilateral, Duct  
Bilateral
- Hepatocyte
- [ Clear Cell Focus TGLs = 9 - 25 ]  
[ Eosinophilic Focus TGLs = 8 - 24 ]
- [ Infiltration Cellular TGLs = 7 - 6+7 ]
- [ Adenoma TGLs = 1,2,3,4,5,6 - 18+19+20+21+22+23 ]
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Eosinophilic Focus
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Adenoma
- Atrophy
- Hypertrophy
- Fibrosis
- Extramedullary Hematopoiesis
- Minimal
- Minimal
- Marked
- Minimal
- Chronicprogr, Mild
- Moderate
- Moderate
- Histiocyte, Mild
- Chronic Active, Minimal
- Minimal
- Multiple
- Minimal
- Moderate
- Mild
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 202

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300202

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Testis	Bilateral, Germinal Epith	Pigment	Minimal
	Bilateral	Degeneration	Marked
	[ Degeneration TGLs = 10 - 16+17 ]	Polyarteritis Nodosa	Moderate
* Thymus		Atrophy	Mild

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 203

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300203

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
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow Hypercellularity Mild
- \* Epididymis Bilateral Hypospermia Marked
- \* Heart Cardiomyopathy Minimal
- \* Intestine Small, Jejunum Adenocarcinoma
- [ Adenocarcinoma TGLs = 7 - 22 ]
- \* Kidney Nephropathy Chronicprogr, Moderate
- \* Liver Clear Cell Focus
- Hepatocyte Cytoplasmic Alteration Marked
- Eosinophilic Focus Moderate
- [ Eosinophilic Focus TGLs = 9 - 23 ]
- \* Lung Infiltration Cellular Histiocyte, Mild
- [ Infiltration Cellular TGLs = 8 - 6+7 ]
- Mesentery Fat Necrosis Mild
- [ Necrosis TGLs = 3,4 - 20+21 ]
- \* Nose Olfactory Epi Accumulation, Hyaline Droplet Minimal
- Inflammation Chronic Active, Mild
- \* Pancreas Acinus Adenoma
- Acinus Carcinoma
- Acinus Hyperplasia Minimal
- [ Adenoma TGLs = 1- 19 ]
- [ Carcinoma TGLs = 2- 18 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 203

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300203

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	Pars Distalis	Hypertrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
* Testis	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Moderate
	[ Degeneration TGLs = 6 - 16 ]		
	[ Edema TGLs = 5 - 16+17 ]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 204

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300204

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	* 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		

OBSERVATIONS

* Epididymis	Bilateral	Hypospermia	Marked
* Kidney		Infarct	Minimal
		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Marked
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi Glands	Accumulation, Hyaline Droplet	Minimal
		Dilation	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Adenoma	Multiple
	Acinus	Hyperplasia	Marked
	[ Adenoma TGLs = 1 - 18 ]		
* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Moderate
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 10188 - 01

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

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**ANIMAL ID:** 204

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300204

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Hyperplasia

Marked

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 205

TRT#: 9

SEX: Male

DAY ON TEST: 621

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Epididymis
- \* Kidney
- \* Liver
- [ Carcinoma TGLs = 5,8 - 20+23 ]
- \* Lung
- [ Infiltration Cellular TGLs = 10 - 6 ]
- Mesentery
- [ Carcinoma TGLs = 2 - 18 ]
- \* Nose
- \* Pancreas
- [ Carcinoma TGLs = 4,6,7,9 - 19+21+22+24 ]
- \* Pituitary Gland
- \* Spleen
- Hypertrophy
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Nephropathy
- Carcinoma
- Cytoplasmic Alteration
- Necrosis
- Pigment
- Infiltration Cellular
- Carcinoma
- Accumulation, Hyaline Droplet
- Atrophy
- Carcinoma
- Fibrosis
- Hyperplasia
- Hypertrophy
- Atrophy
- Focal, Minimal
- Moderate
- Minimal
- Marked
- Chronicprogr, Mild
- Metastatic (Pancreas)
- Moderate
- Mild
- Minimal
- Histiocyte, Mild
- Metastatic (Pancreas)
- Mild
- Moderate
- Multiple
- Mild
- Minimal
- Moderate
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 205

TRT#: 9

SEX: Male

DAY ON TEST: 621

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300205

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Extramedullary Hematopoiesis	Moderate
[ Hyperplasia TGLs = 11 - 25 ]		Hyperplasia	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
[ Degeneration TGLs = 3 - 16+17 ]	Bilateral	Edema	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pancreas Acinus Carcinoma

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 206

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300206

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 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Epididymis	Bilateral, Duct Bilateral	Exfoliated Germ Cell Hypospermia	Minimal Marked
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Clear Cell Focus Cytoplasmic Alteration Pigment	Marked Mild
* Nose	Glands	Dilation	Mild
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis Pars Distalis	Hyperplasia Hypertrophy	Mild Mild
* Skin	[ Cyst Epithelial Inclusion TGLs = 1 - 18 ]	Cyst Epithelial Inclusion	
* Spleen		Extramedullary Hematopoiesis Pigment	Mild Mild
* Testis	Interstitial Cell Bilateral, Germinal Epith Bilateral	Adenoma Degeneration Edema	Marked Moderate
	[ Degeneration TGLs = 2 - 16+17 ]		
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

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**ANIMAL ID:** 206

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300206

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Adenoma

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 207

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300207

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
- \* Nose
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Pancreas
  - \* Pituitary Gland
  - \* Spleen
  - \* Testis
  - \* Thymus
  - \* Thyroid Gland
- [ Degeneration TGLs = 1 - 16+17 ]

Bilateral, Duct  
Bilateral

Hepatocyte

Acinus  
Pars Distalis

Bilateral, Germinal Epith  
Bilateral

C Cell

Hypercellularity Mild  
 Exfoliated Germ Cell Minimal  
 Hypospermia Marked  
 Cardiomyopathy Mild  
 Nephropathy Chronicprogr, Moderate  
 Clear Cell Focus  
 Cytoplasmic Alteration Marked  
 Eosinophilic Focus  
 Pigment Minimal  
 Hyperplasia Marked  
 Hypertrophy Mild  
 Pigment Mild  
 Degeneration Marked  
 Edema Moderate  
 Atrophy Moderate  
 Hyperplasia Minimal

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 208

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Eye
- \* Intestine Small, Ileum
- \* Parathyroid Gland
- \* Skin
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Jejunum
- \* Preputial Gland
- \* Stomach, Glandular
- \* Brain
- \* Intestine Large, Cecum
- \* Islets, Pancreatic
- \* Salivary Glands
- \* Trachea
- \* Esophagus
- \* Intestine Small, Duodenum
- \* Mammary Gland
- \* Seminal Vesicle
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Medulla  
Blood Vessel  
[ Aneurysm TGLs = 3 - 18 ]
- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Lymph Node, Mandibular  
[ Dilation TGLs = 4 - 12 ]
- \* Lymph Node, Mesenteric  
[ Hyperplasia TGLs = 5 - 9+18 ]
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- Hyperplasia
- Aneurysm
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Polyarteritis Nodosa
- Cardiomyopathy
- Polyarteritis Nodosa
- Parasite Metazoan
- Polyarteritis Nodosa
- Nephropathy
- Clear Cell Focus
- Hepatocyte
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Dilation
- Hyperplasia
- Polyarteritis Nodosa
- Accumulation, Hyaline Droplet
- Polyarteritis Nodosa
- Adenoma
- Focal, Minimal
- Moderate
- Mild
- Minimal
- Marked
- Moderate
- Mild
- Moderate
- Moderate
- Chronicprogr, Moderate
- Marked
- Mild
- Histiocyte, Moderate
- Moderate
- Lymphocyte, Moderate
- Mild
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 208

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300208

ORGAN AND ACCOUNTABLE SITE STATUS

[ Adenoma TGLs = 2 - 11 ]

* Prostate		Polyarteritis Nodosa	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Stomach, Forestomach		Polyarteritis Nodosa	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Minimal
	Bilateral	Polyarteritis Nodosa	Moderate
[ Degeneration TGLs = 1 - 16+17 ]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 209

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* 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
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Congestion	Minimal
		Hypercellularity	Mild
* Epididymis	Bilateral, Duct	Exfoliated Germ Cell	Minimal
	Bilateral	Hypospermia	Marked
* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
	Valve	Fibrosis	Mild
	Valve	Thrombus	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
		Eosinophilic Focus	
		Hepatocellular Carcinoma	
		Pigment	Moderate
	[ Eosinophilic Focus TGLs = 2 - 19 ]		
	[ Hepatocellular Carcinoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas	Acinus	Adenoma	Multiple
	[ Adenoma TGLs = 3- 20 ]		
* Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 209

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300209

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Pigment	Minimal
		Hyperplasia	Marked
		Inflammation	Chronic Active, Mild
* Testis	Interstit Cell	Adenoma	
	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Moderate
	[ Degeneration TGLs = 4 - 16+17 ]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Moderate

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 210

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* 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	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Epididymis	Bilateral	Hypospermia	Marked
* Eye	Retina	Fibrosis	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Marked
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Pigment	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Atrophy	Minimal
	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Hypertrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Interstit Cell	Adenoma	
	Bilateral, Germinal Epith	Degeneration	Marked
		Edema	Moderate

[ Degeneration TGLs = 1 - 16+17 ]

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

ANIMAL ID: 211

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300211

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Degeneration	Bilateral	Edema	Moderate
* Thyroid Gland	TGLs = 1 - 16+17 ] C Cell	Hyperplasia	Minimal

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 212

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300212

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            | * Parathyroid Gland       | * Pituitary Gland           |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           |

OBSERVATIONS

- |               |   |                               |                       |
|---------------|---|-------------------------------|-----------------------|
| * Bone Marrow |   | Hypercellularity              | Minimal               |
| * Epididymis  | Bilateral, Duct                             | Exfoliated Germ Cell          | Mild                  |
|               | Bilateral                                   | Hypospermia                   | Marked                |
| * Heart       | Valve                                       | Fibrosis                      | Minimal               |
| * Kidney      |   | Nephropathy                   | Chronicprogr, Minimal |
| * Liver       |   | Clear Cell Focus              |                       |
|               | Hepatocyte                                  | Cytoplasmic Alteration        | Marked                |
|               |   | Eosinophilic Focus            |                       |
|               | Bile Duct                                   | Hyperplasia                   | Minimal               |
|               |   | Pigment                       | Minimal               |
| * Lung        |   | Infiltration Cellular         | Histiocyte, Mild      |
|               | [ Infiltration Cellular TGLs = 5 - 6+7 ]    |                               |                       |
| * Nose        | Olfactory Epi                               | Accumulation, Hyaline Droplet | Minimal               |
| * Pancreas    | Acinus                                      | Adenoma                       | Multiple              |
|               | Acinus                                      | Hyperplasia                   | Mild                  |
|               | [ Adenoma TGLs = 4 - 19 ]                   |                               |                       |
| * Skin        |   | Cyst Epithelial Inclusion     |                       |
|               | [ Cyst Epithelial Inclusion TGLs = 1 - 18 ] |                               |                       |
| * Spleen      |   | Extramedullary Hematopoiesis  | Mild                  |
|               |   | Pigment                       | Mild                  |
| * Testis      | Interstit Cell                              | Adenoma                       |                       |
|               | Bilateral, Germinal Epith                   | Degeneration                  | Marked                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 212

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300212

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

	Bilateral	Edema	Moderate
[ Adenoma TGLs = 2- 16+20 ]			
[ Degeneration TGLs = 3 - 17 ]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 213

TRT#: 9

SEX: Male

DAY ON TEST: 734

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Preputial Gland
- \* Spleen
- \* Testis
- Bilateral, Duct
- Bilateral
- Hepatocyte
- Bile Duct
- [ Infiltration Cellular TGLs = 4 6+7 ]
- Olfactory Epi
- Acinus
- Pars Distalis
- [ Squamous Cell Carcinoma TGLs = 1 - 19 ]
- Bilateral, Germinal Epith
- Bilateral
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Cytoplasmic Alteration
- Hyperplasia
- Necrosis
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Hypertrophy
- Squamous Cell Carcinoma
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Edema
- Mild
- Mild
- Marked
- Minimal
- Chronicprogr, Minimal
- Marked
- Minimal
- Mild
- Mild
- Histiocyte, Moderate
- Minimal
- Multiple
- Moderate
- Moderate
- Mild
- Mild
- Marked
- Moderate

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 213

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300213

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Degeneration TGLs = 3 - 16+17 ]

\* Thymus

Atrophy

Mild

\* Thyroid Gland

C Cell

Hyperplasia

Minimal

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 214

TRT#: 9

SEX: Male

DAY ON TEST: 734

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300214

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          | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                   |                               |                               |                    |
|-------------------|-------------------------------|-------------------------------|--------------------|
| * Bone Marrow     |                               | Hypercellularity              | Mild               |
| * Heart           |                               | Cardiomyopathy                | Mild               |
| * Kidney          |                               | Nephropathy                   | Chronicprogr, Mild |
| * Liver           |                               | Clear Cell Focus              |                    |
|                   | Hepatocyte                    | Cytoplasmic Alteration        | Moderate           |
|                   |                               | Pigment                       | Moderate           |
| * Nose            | Olfactory Epi                 | Accumulation, Hyaline Droplet | Minimal            |
| * Pituitary Gland | Pars Distalis                 | Hyperplasia                   | Marked             |
|                   | [ Hyperplasia TGLs = 1 - 20 ] |                               |                    |
| * Prostate        | Epithelium, Ventral           | Hyperplasia                   | Moderate           |
| * Spleen          |                               | Extramedullary Hematopoiesis  | Mild               |
|                   |                               | Pigment                       | Mild               |
| * Testis          | Germinal Epith                | Degeneration                  | Minimal            |
| * Thymus          |                               | Atrophy                       | Mild               |
| * Thyroid Gland   | C Cell                        | Adenoma                       |                    |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 216

TRT#: 9

SEX: Male

DAY ON TEST: 733

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Pituitary Gland         | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                  |  |                               |                          |
|------------------|--|-------------------------------|--------------------------|
| * Adrenal Cortex |  | Degeneration                  | Cystic, Mild             |
| Blood Vessel     | Aorta                                    | Mineral                       | Minimal                  |
|                  | Pulmn Vein                               | Mineral                       | Minimal                  |
| * Epididymis     | Bilateral, Duct                          | Exfoliated Germ Cell          | Mild                     |
|                  | Bilateral                                | Hypospermia                   | Marked                   |
| * Heart          |  | Cardiomyopathy                | Minimal                  |
| * Kidney         |  | Nephropathy                   | Chronicprogr, Mild       |
| * Liver          |  | Clear Cell Focus              |                          |
|                  | Hepatocyte                               | Cytoplasmic Alteration        | Marked                   |
|                  |  | Eosinophilic Focus            |                          |
|                  | Bile Duct                                | Hyperplasia                   | Minimal                  |
|                  |  | Pigment                       | Moderate                 |
|                  | [ Eosinophilic Focus TGLs = 4 - 21 ]     |                               |                          |
| * Lung           |  | Infiltration Cellular         | Histiocyte, Mild         |
|                  | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                          |
| * Nose           | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                  |
| * Pancreas       | Acinus                                   | Adenoma                       | Multiple                 |
|                  | Acinus                                   | Hyperplasia                   | Moderate                 |
|                  |  | Inflammation                  | Chronic Active, Moderate |
|                  | [ Adenoma TGLs = 1 - 20 ]                |                               |                          |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 216

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300216

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Moderate
	[ Degeneration TGLs = 2 - 16+17 ]		
* Thymus		Atrophy	Moderate

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 217

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300217

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
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow: Hypercellularity (Mild)
- \* Epididymis: Bilateral, Duct: Exfoliated Germ Cell (Mild); Bilateral: Hypospermia (Moderate)
- \* Heart: Cardiomyopathy (Minimal)
- \* Kidney: Nephropathy (Chronicprogr, Mild)
- \* Liver: Clear Cell Focus; Hepatocyte: Cytoplasmic Alteration (Marked); Necrosis (Minimal); Pigment (Moderate)
- \* Lung: Infiltration Cellular (Histiocyte, Minimal)
- \* Nose: Olfactory Epi: Accumulation, Hyaline Droplet (Mild); Gingival: Cyst
- \* Oral Mucosa: Cyst
- \* Pancreas: Acinus: Hyperplasia (Mild)
- \* Pituitary Gland: Pars Distalis: Hypertrophy (Minimal)
- \* Spleen: Extramedullary Hematopoiesis (Mild); Pigment (Mild)
- \* Testis: Bilateral, Germinal Epith: Degeneration (Moderate); Bilateral: Edema (Mild)
- \* Thymus: Atrophy (Mild)

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 218

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * 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                    | * Parathyroid Gland         |
| * Preputial Gland        | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           |

OBSERVATIONS

- |                   |   |   |                        |
|-------------------|---|---|------------------------|
| * Brain           |   | Glioma Malignant                        |                        |
| * Epididymis      | Bilateral, Duct<br>Bilateral                | Exfoliated Germ Cell<br>Hypospermia     | Mild<br>Marked         |
| * Heart           |   | Cardiomyopathy                          | Minimal                |
| * Kidney          |   | Nephropathy                             | Chronicprogr, Minimal  |
| * Liver           |   | Clear Cell Focus                        |                        |
|                   | Hepatocyte                                  | Cytoplasmic Alteration                  | Marked                 |
|                   |   | Pigment                                 | Moderate               |
| * Lung            | Alveolar Epith                              | Hyperplasia                             | Moderate               |
|                   |   | Inflammation                            | Granulomatous, Minimal |
| * Pancreas        | Acinus<br>Acinus                            | Adenoma<br>Hyperplasia                  | Multiple<br>Moderate   |
|                   | [ Adenoma TGLs = 1 - 18 ]                   |   |                        |
| * Pituitary Gland | Pars Distalis<br>Pars Distalis              | Hyperplasia<br>Hypertrophy              | Minimal<br>Mild        |
| * Prostate        | Epithelium, Ventral                         | Hyperplasia                             | Mild                   |
| * Spleen          |   | Extramedullary Hematopoiesis<br>Pigment | Mild<br>Mild           |
| * Testis          | Interstit Cell<br>Bilateral, Germinal Epith | Adenoma<br>Degeneration<br>Edema        | Marked<br>Mild         |
|                   | [ Degeneration TGLs = 2 - 16+17 ]           |   |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 218

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300218

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

\* Thyroid Gland

Bilateral, C Cell

Adenoma

---



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 219

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
  - Hyperplasia
  - Hypertrophy
  - Mineral
  - Developmental Malformation
  - Exfoliated Germ Cell
  - Hypospermia
  - Hyperplasia
  - Nephropathy
  - Clear Cell Focus
  - Cytoplasmic Alteration
  - Eosinophilic Focus
  - Hepatocellular Adenoma
  - Pigment
- Blood Vessel
  - Aorta
  - Meninges, Venule
  - Bilateral, Duct
  - Bilateral
- \* Brain
- \* Epididymis
- \* Islets, Pancreatic
- \* Kidney
- \* Liver
  - Hepatocyte
  - Cytoplasmic Alteration
  - Eosinophilic Focus
  - Hepatocellular Adenoma
  - Pigment
- [ Hepatocellular Adenoma TGLs = 3- 20 ]
- \* Lung
  - Alveolar Epith
  - Hyperplasia
  - Infiltration Cellular
  - Inflammation
- [ Infiltration Cellular TGLs = 5 - 6+7 ]
- \* Nose
  - Olfactory Epi
- \* Pancreas
  - Acinus
  - Adenoma
- [ Adenoma TGLs = 1,2 - 18+19 ]
- \* Pituitary Gland
  - Pars Distalis
  - Hyperplasia

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 219

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300219

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Spleen	Pars Distalis	Hypertrophy	Minimal
		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Interstit Cell	Adenoma	
	Bilateral, Germinal Epith	Degeneration	Moderate
		Edema	Moderate
	[ Degeneration TGLs = 4 - 16+17 ]		
* Thymus		Atrophy	Mild

---

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 220

TRT#: 9

SEX: Male

DAY ON TEST: 661

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* 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
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Epididymis	Bilateral	Hypospermia	Marked
* Harderian Gland		Necrosis	Minimal
* Heart		Cardiomyopathy	Moderate
	Valve	Fibrosis	Moderate
	Valve	Thrombus	Marked
Note: Chronic valvular thrombus with cartilage metaplasia obstructing left inflow and outflow tracts.			
* Kidney		Infarct	Moderate
		Nephropathy	Chronicprogr, Mild
* Liver		Basophilic Focus	
	Hepatocyte	Cytoplasmic Alteration	Marked
		Pigment	Mild
* Lung		Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Hypertrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Mild
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Heart Valve Thrombus

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 221

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Intestine Large, Rectum
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Pancreas
  - \* Pituitary Gland
  - \* Spleen
  - \* Testis
  - \* Thymus
- [ Adenoma TGLs = 1 - 18 ]
- Bilateral, Duct
  - Bilateral
  - Hepatocyte
  - Acinus
  - Acinus
  - Pars Distalis
  - Bilateral, Germinal Epith
  - Bilateral
- Hypercellularity
  - Exfoliated Germ Cell
  - Hypospermia
  - Parasite Metazoan
  - Nephropathy
  - Clear Cell Focus
  - Cytoplasmic Alteration
  - Pigment
  - Infiltration Cellular
  - Adenoma
  - Hyperplasia
  - Hypertrophy
  - Extramedullary Hematopoiesis
  - Pigment
  - Degeneration
  - Edema
  - Atrophy
- Minimal
  - Mild
  - Marked
  - Chronicprogr, Minimal
  - Marked
  - Moderate
  - Histiocyte, Mild
  - Multiple
  - Marked
  - Mild
  - Mild
  - Mild
  - Marked
  - Moderate
  - Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 222

TRT#: 9

SEX: Male

DAY ON TEST: 653

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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         | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           |                          |

MISSING

- \* Thymus

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex  |  | Hypertrophy                   | Focal, Minimal        |
| * Bone Marrow     |  | Hypercellularity              | Mild                  |
| * Epididymis      | Bilateral                              | Hypospermia                   | Marked                |
|                   | [ Hypospermia TGLs = 4- 14 ]           | Mesothelioma Malignant        |                       |
| * Harderian Gland |  | Atrophy                       | Moderate              |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           | Hepatocyte                             | Cytoplasmic Alteration        | Marked                |
|                   |  | Eosinophilic Focus            |                       |
|                   |  | Pigment                       | Moderate              |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild      |
|                   | [ Infiltration Cellular TGLs = 2 - 6 ] |                               |                       |
| * Nose            | Olfactory Epi                          | Accumulation, Hyaline Droplet | Minimal               |
|                   |  | Amyloid                       | Minimal               |
| * Pituitary Gland | Pars Distalis                          | Adenoma                       |                       |
|                   | [ Adenoma TGLs = 1 - 11 ]              |                               |                       |
| * Preputial Gland | Duct                                   | Hyperplasia                   | Squamous, Mild        |
| * Spleen          |  | Pigment                       | Mild                  |
| * Testis          | Bilateral, Germinal Epith              | Degeneration                  | Marked                |
|                   | Bilateral                              | Edema                         | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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ANIMAL ID: 222

TRT#: 9

SEX: Male

DAY ON TEST: 653

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300222

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Mesothelioma Malignant

[ Degeneration TGLs = 3 - 16+17 ]

\* Thyroid Gland

C Cell

Hyperplasia

Mild

---

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 223

TRT#: 9

SEX: Male

DAY ON TEST: 733

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300223

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      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Pancreas                  | * Preputial Gland        |
| * Salivary Glands          | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           |                          |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |                                   |                               |                      |
|-------------------|-----------------------------------|-------------------------------|----------------------|
| * Adrenal Medulla |                                   | Hyperplasia                   | Focal, Minimal       |
| * Bone Marrow     |                                   | Hypercellularity              | Mild                 |
| * Epididymis      | Bilateral, Duct                   | Exfoliated Germ Cell          | Minimal              |
|                   | Bilateral                         | Hypospermia                   | Marked               |
| * Heart           |                                   | Cardiomyopathy                | Minimal              |
| * Kidney          |                                   | Nephropathy                   | Chronicprogr, Mild   |
| * Liver           |                                   | Clear Cell Focus              |                      |
|                   | Hepatocyte                        | Cytoplasmic Alteration        | Marked               |
|                   | Bile Duct                         | Hyperplasia                   | Minimal              |
|                   |                                   | Pigment                       | Moderate             |
| * Nose            | Olfactory Epi                     | Accumulation, Hyaline Droplet | Minimal              |
| * Pituitary Gland | Pars Distalis                     | Hyperplasia                   | Moderate             |
|                   | Pars Distalis                     | Hypertrophy                   | Minimal              |
| * Prostate        | Dorsal, Lateral                   | Inflammation                  | Chronic Active, Mild |
| * Spleen          |                                   | Extramedullary Hematopoiesis  | Mild                 |
|                   |                                   | Pigment                       | Mild                 |
| * Testis          | Bilateral, Germinal Epith         | Degeneration                  | Marked               |
|                   | Bilateral                         | Edema                         | Moderate             |
|                   | [ Degeneration TGLs = 1 - 16+17 ] |                               |                      |
| * Thymus          |                                   | Atrophy                       | Moderate             |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

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

**Date Report Requested:** 12/17/2019  
**Time Report Requested:** 10:43:08  
**First Dose M/F:** 02/17/11 / 02/18/11  
**Lab:** BAT

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**ANIMAL ID:** 223

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300223

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

C Cell

Adenoma

---



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 224

TRT#: 9

SEX: Male

DAY ON TEST: 733

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Epididymis	Bilateral, Duct	Exfoliated Germ Cell	Minimal
	Bilateral	Hypospermia	Marked
* Heart		Cardiomyopathy	Minimal
	Valve	Fibrosis	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Marked
	Hepatocyte	Hypertrophy	Mild
		Pigment	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pancreas	Acinus	Adenoma	Multiple
	Acinus	Atrophy	Minimal
	Acinus	Hyperplasia	Moderate
	[ Adenoma TGLs = 1 - 19 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Hypertrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

---

ANIMAL ID: 224

TRT#: 9

SEX: Male

DAY ON TEST: 733

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300224

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ORGAN AND ACCOUNTABLE SITE STATUS

---

	Bilateral	Edema	Moderate
	Interstit Cell	Hyperplasia	Moderate
[ Degeneration	TGLs = 2 - 16+17 ]		
* Thymus		Atrophy	Mild

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 225

TRT#: 9

SEX: Male

DAY ON TEST: 733

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Trachea
- \* Adrenal Medulla
- \* 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
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Glandular

OBSERVATIONS

- \* Bone Marrow
- \* Epididymis
- \* Kidney
- \* Liver
- \* Lung
- Mesentery
  - [ Carcinoma TGLs = 2 - 19 ]
- \* Nose
- \* Pancreas
  - [ Carcinoma TGLs = 1 - 18 ]
- \* Spleen
- \* Testis
  - [ Adenoma TGLs = 4 - 17 ]
  - [ Degeneration TGLs = 3 - 16+17 ]

Bilateral, Duct  
Bilateral

Hepatocyte

Olfactory Epi  
Acinus

Interstitial Cell  
Bilateral, Germinal Epith  
Bilateral  
Bilateral

Hypercellularity  
Exfoliated Germ Cell  
Hypospermia  
Nephropathy  
Cytoplasmic Alteration  
Necrosis  
Pigment  
Infiltration Cellular  
Inflammation  
Carcinoma

Accumulation, Hyaline Droplet  
Carcinoma

Extramedullary Hematopoiesis  
Adenoma  
Degeneration  
Edema  
Polyarteritis Nodosa

Mild  
Minimal  
Marked  
Chronicprogr, Minimal  
Minimal  
Minimal  
Mild  
Histiocyte, Minimal  
Chronic Active, Minimal  
Metastatic (Pancreas)

Minimal

Mild  
Marked  
Mild  
Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 225

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300225

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Marked

\* Thyroid Gland

C Cell

Hyperplasia

Marked

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 226

TRT#: 9

SEX: Male

DAY ON TEST: 614

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Thymus

OBSERVATIONS

- |                   |                           |                               |                       |
|-------------------|---------------------------|-------------------------------|-----------------------|
| * Brain           | Cerebrum                  | Gliosis                       | Mild                  |
| * Epididymis      | Bilateral, Duct           | Exfoliated Germ Cell          | Minimal               |
|                   | Bilateral                 | Hypospermia                   | Marked                |
| * Heart           |                           | Cardiomyopathy                | Minimal               |
| * Kidney          | Renal Tubule              | Hyperplasia                   | Atypical, Minimal     |
|                   |                           | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           | Hepatocyte                | Cytoplasmic Alteration        | Marked                |
|                   | Bile Duct                 | Hyperplasia                   | Minimal               |
|                   |                           | Pigment                       | Mild                  |
| * Lung            |                           | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose            | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal               |
| * Pituitary Gland | Pars Distalis             | Hypertrophy                   | Minimal               |
| * Spleen          |                           | Pigment                       | Mild                  |
| * Testis          | Bilateral, Germinal Epith | Degeneration                  | Marked                |
|                   | Bilateral                 | Edema                         | Moderate              |

[ Degeneration TGLs = 1 - 17 ]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 227

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300227

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
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - Congestion Mild
  - Hypercellularity Mild
- \* Epididymis
  - Bilateral, Duct Exfoliated Germ Cell Minimal
  - Bilateral Hypospermia Marked
- \* Heart
  - Cardiomyopathy Minimal
- \* Intestine Large, Rectum
  - Parasite Metazoan
- \* Kidney
  - Nephropathy Chronicprogr, Minimal
- \* Liver
  - Hepatocyte
    - Clear Cell Focus
    - Cytoplasmic Alteration Marked
    - Eosinophilic Focus
    - Hepatocellular Carcinoma
    - Pigment Moderate
  - [ Hepatocellular Carcinoma TGLs = 1 - 18 ]
- \* Lung
  - Infiltration Cellular Histiocyte, Mild
- \* Nose
  - Olfactory Epi Accumulation, Hyaline Droplet Minimal
- \* Pancreas
  - Acinus Adenoma Multiple
  - Acinus Hyperplasia Marked
  - [ Adenoma TGLs = 3,4 - 19+20 ]
- \* Spleen
  - Extramedullary Hematopoiesis Mild
  - Pigment Mild
- \* Testis
  - Interstit Cell Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

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**ANIMAL ID:** 227

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300227

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Bilateral, Germinal Epith

Degeneration

Marked

Edema

Moderate

[ Degeneration TGLs = 2 - 16+17 ]

Atrophy

Moderate

---

\* Thymus

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 228

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Thymus

OBSERVATIONS

- \* Adrenal Cortex
  - \* Epididymis
  - \* Eye
  - \* Intestine Large, Rectum
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Pancreas
  - Hyperplasia
  - Exfoliated Germ Cell
  - Hypospermia
  - Hemorrhage
  - Parasite Metazoan
  - Nephropathy
  - Clear Cell Focus
  - Hepatocyte
  - Infiltration Cellular
  - Accumulation, Hyaline Droplet
  - Adenoma
  - Minimal
  - Mild
  - Marked
  - Marked
  - Chronicprogr, Mild
  - Moderate
  - Moderate
  - Histiocyte, Mild
  - Minimal
- Note: Probable peri-mortem prolapse and trauma - extensive hemorrhage, beginning autolysis, no evidence of inflammation to indicate response in-life.  
 [ Hemorrhage TGLs = 7 - 22 ]  
 [ Hepatocellular Adenoma TGLs = 4 - 20 ]  
 [ Mixed Cell Focus TGLs = 3 - 19 ]  
 [ Infiltration Cellular TGLs = 6 - 6+7 ]

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 228

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300228

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLs = 5 - 21 ]			
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Interstit Cell	Adenoma	
	Bilateral, Germinal Epith	Degeneration	Marked
[ Degeneration TGLs = 1,2 - 17+16 ]			

---



Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

ANIMAL ID: 229

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300229

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Pars Distalis	Hypertrophy	Mild
		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Moderate
	[ Degeneration TGLs = 3 - 16+17 ]		
* Thymus		Atrophy	Mild

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 230

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300230

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
- \* Parathyroid Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Pancreas
  - \* Pituitary Gland
  - \* Preputial Gland
  - \* Skin
- [ Infiltration Cellular TGLs = 4 - 7 ]
- [ Adenoma TGLs = 3 - 19 ]
- [ Fibroma TGLs = 1 - 18 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 230

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300230

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Interstitial Cell	Adenoma	
	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Moderate
	[ Degeneration TGLs = 2 - 16+17 ]		
* Thymus		Atrophy	Moderate
		Ectopic Parathyroid Gland	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 231

TRT#: 9

SEX: Male

DAY ON TEST: 736

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300231

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- Hepatocyte
- [ Eosinophilic Focus TGLs = 3 - 20 ]
- \* Lung
- \* Nose
- \* Pancreas
- [ Adenoma TGLs = 2 - 19 ]
- [ Carcinoma TGLs = 1 - 18 ]
- \* Pituitary Gland
- \* Spleen
- Hypertrophy
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Eosinophilic Focus
- Pigment
- Inflammation
- Accumulation, Hyaline Droplet
- Inflammation
- Adenoma
- Carcinoma
- Hyperplasia
- Hypertrophy
- Hyperplasia
- Hyperplasia
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Focal, Mild
- Minimal
- Minimal
- Chronicprogr, Minimal
- Marked
- Moderate
- Granulomatous, Minimal
- Minimal
- Chronic Active, Minimal
- Multiple
- Marked
- Mild
- Minimal
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 231

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300231

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Testis	Bilateral, Germinal Epith	Degeneration	Mild
	Bilateral	Edema	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked

---





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 232

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300232

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Adenoma TGLs = 1 - 16+19 ]

[ Degeneration TGLs = 2 - 17 ]

\* Thymus

Atrophy

Mild

---



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 233

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 663

**DOSE:** 10000 ppm Male

**DISP:** Moribund Sacrifice

**HISTO:** 1300233

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Heart Cardiomyopathy

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 234

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Bone Marrow
- \* Epididymis
- \* Kidney
- \* Liver
- [ Eosinophilic Focus TGLs = 2,6 - 18+20 ]
- [ Hepatocellular Adenoma TGLs = 3 - 19 ]
- \* Lung
- [ Infiltration Cellular TGLs = 5 - 6+7 ]
- \* Nose
- \* Pancreas
- [ Adenoma TGLs = 4 - 21 ]
- \* Pituitary Gland
- \* Spleen
- Bilateral, Duct
- Bilateral
- Hepatocyte
- Bile Duct
- Hepatocyte
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Eosinophilic Focus
- Hepatocellular Adenoma
- Hyperplasia
- Hypertrophy
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Minimal
- Minimal
- Marked
- Chronicprogr, Minimal
- Marked
- Minimal
- Minimal
- Moderate
- Histiocyte, Moderate
- Mild
- Multiple
- Mild
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

ANIMAL ID: 234

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300234

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Testis	Bilateral, Interstit Cell	Adenoma	
	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Marked
[ Adenoma TGLs = 1 - 16+17 ]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 235

TRT#: 9

SEX: Male

DAY ON TEST: 734

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone
- \* Brain
- \* Epididymis
- \* 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
- \* Mammary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Parathyroid Gland

OBSERVATIONS

Blood Vessel	Aorta	Mineral	Minimal
* Bone Marrow		Hypercellularity	Mild
* Harderian Gland		Metaplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Marked
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
		Pigment	Moderate
* Lung		Infiltration Cellular	Histiocyte, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Glands	Dilation	Minimal
* Pancreas	Acinus	Carcinoma	
	Bile Duct	Dilation	Mild
	Acinus	Hyperplasia	Minimal
		Polyarteritis Nodosa	Mild
	[ Carcinoma TGLs = 1 - 18 ]		
	[ Dilation TGLs = 2-19 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

---

**ANIMAL ID:** 235

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300235

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Testis	Bilateral, Germinal Epith	Degeneration	Mild
		Edema	Mild
	Bilateral	Polyarteritis Nodosa	Mild
* Thymus		Atrophy	Mild

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 236

TRT#: 9

SEX: Male

DAY ON TEST: 425

DOSE: 10000 ppm Male

DISP: Moribund Sacrifice

HISTO: 1300236

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
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - \* Brain
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Pituitary Gland
  - \* Testis
  - \* Thymus
- Hypercellularity  
 Glioma Malignant  
 Nephropathy  
 Clear Cell Focus  
 Pigment  
 Infiltration Cellular  
 Hypertrophy  
 Degeneration  
 Edema  
 Atrophy
- Moderate  
 Chronicprogr, Minimal  
 Minimal  
 Histiocyte, Mild  
 Mild  
 Mild  
 Minimal  
 Mild

PRIMARY CAUSE OF DEATH

- Brain Glioma Malignant

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 237

TRT#: 9

SEX: Male

DAY ON TEST: 733

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300237

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	Pars Distalis	Hypertrophy	Mild
* Skin		Fibrosis	Moderate
		Inflammation	Chronic, Moderate
	[ Inflammation TGLs = 4 - 21 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Moderate
* Thyroid Gland	C Cell	Adenoma	

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 238

TRT#: 9

SEX: Male

DAY ON TEST: 733

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300238

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

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- Bilateral, Duct
- Bilateral
- Valve
- Hepatocyte
- Hepatocyte
- Olfactory Epi
- Acinus
- Pars Distalis
- Pars Distalis
- Bilateral, Germinal Epith
- Bilateral
- [ Degeneration TGLs = 1 - 16+17 ]
- Pheochromocytoma Benign
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Fibrosis
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hypertrophy
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Edema
- Atrophy
- Minimal
- Mild
- Marked
- Mild
- Chronicprogr, Minimal
- Marked
- Minimal
- Moderate
- Histiocyte, Minimal
- Minimal
- Mild
- Mild
- Minimal
- Mild
- Marked
- Moderate
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 239

TRT#: 9

SEX: Male

DAY ON TEST: 733

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300239

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
- \* Preputial Gland
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Heart
  - \* Intestine Large, Rectum
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Pancreas
  - \* Pituitary Gland
  - \* Prostate
  - \* Spleen
  - \* Testis
  - \* Thymus
- [ Adenoma TGLs = 1 - 19 ]

Bilateral, Duct  
Bilateral

Hepatocyte

Acinus  
Acinus

Pars Distalis  
Epithelium, Ventral

Bilateral, Germinal Epith  
Bilateral

- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Eosinophilic Focus
- Necrosis
- Pigment
- Infiltration Cellular
- Adenoma
- Hyperplasia
- Hypertrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Edema
- Atrophy

- Minimal
- Mild
- Marked
- Minimal
- Chronicprogr, Mild
- Moderate
- Minimal
- Moderate
- Histiocyte, Minimal
- Multiple
- Marked
- Mild
- Moderate
- Minimal
- Mild
- Marked
- Moderate
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 240

TRT#: 9

SEX: Male

DAY ON TEST: 733

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Epididymis
- \* Heart
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- [ Hepatocellular Adenoma TGLs = 1 - 19 ]
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Testis
- Bilateral, Duct
- Bilateral
- Hepatocyte
- Bile Duct
- Olfactory Epi
- Acinus
- Pars Distalis
- Pars Distalis
- Bilateral, Germinal Epith
- Degeneration
- Hypercellularity
- Exfoliated Germ Cell
- Hypospermia
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hepatocellular Adenoma
- Hyperplasia
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Hyperplasia
- Adenoma
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Cystic, Minimal
- Mild
- Minimal
- Marked
- Minimal
- Chronicprogr, Mild
- Moderate
- Minimal
- Moderate
- Histiocyte, Mild
- Minimal
- Marked
- Mild
- Mild
- Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

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

**Date Report Requested:** 12/17/2019  
**Time Report Requested:** 10:43:08  
**First Dose M/F:** 02/17/11 / 02/18/11  
**Lab:** BAT

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**ANIMAL ID:** 240

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300240

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus	Bilateral	Edema Atrophy	Marked Mild
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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 241

TRT#: 9

SEX: Male

DAY ON TEST: 734

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- Blood Vessel
- \* Epididymis
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Nose
- \* Pancreas
- [ Adenoma TGLs = 1 - 20 ]
- \* Pituitary Gland
- \* Preputial Gland
- \* Spleen
- \* Testis
- Aorta
- Bilateral, Duct
- Bilateral
- Hepatocyte
- Adenoma
- Mineral
- Exfoliated Germ Cell
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Hyperplasia
- Hypertrophy
- Inflammation
- Extramedullary Hematopoiesis
- Pigment
- Adenoma
- Minimal
- Minimal
- Marked
- Minimal
- Chronicprogr, Mild
- Moderate
- Moderate
- Histiocyte, Mild
- Chronic Active, Minimal
- Minimal
- Multiple
- Marked
- Marked
- Moderate
- Chronic Active, Marked
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 241

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300241

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Moderate
[ Degeneration	TGLs = 2 - 16+17 ]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Carcinoma	

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 242

TRT#: 9

SEX: Male

DAY ON TEST: 734

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300242

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          | * Nose                     | * Parathyroid Gland       | * Preputial Gland           |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

OBSERVATIONS

- |                      |                           |                              |                    |
|----------------------|---------------------------|------------------------------|--------------------|
| * Bone Marrow        |                           | Hypercellularity             | Mild               |
| * Epididymis         | Bilateral, Duct           | Exfoliated Germ Cell         | Minimal            |
|                      | Bilateral                 | Hypospermia                  | Marked             |
| * Heart              |                           | Cardiomyopathy               | Mild               |
|                      | Valve                     | Fibrosis                     | Mild               |
|                      | Valve                     | Thrombus                     | Minimal            |
| * Islets, Pancreatic |                           | Hyperplasia                  | Minimal            |
| * Kidney             |                           | Nephropathy                  | Chronicprogr, Mild |
| * Liver              |                           | Clear Cell Focus             |                    |
|                      | Hepatocyte                | Cytoplasmic Alteration       | Marked             |
|                      |                           | Necrosis                     | Minimal            |
|                      |                           | Pigment                      | Moderate           |
| * Lung               |                           | Infiltration Cellular        | Histiocyte, Mild   |
| * Pancreas           | Acinus                    | Adenoma                      |                    |
|                      | [ Adenoma TGLs = 1 - 20 ] |                              |                    |
| * Pituitary Gland    | Pars Distalis             | Hyperplasia                  | Mild               |
|                      | Pars Distalis             | Hypertrophy                  | Mild               |
| * Prostate           | Epithelium, Ventral       | Hyperplasia                  | Moderate           |
| * Spleen             |                           | Extramedullary Hematopoiesis | Mild               |
|                      |                           | Pigment                      | Mild               |
| * Testis             | Bilateral, Germinal Epith | Degeneration                 | Marked             |
|                      | Bilateral                 | Edema                        | Moderate           |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

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

**Date Report Requested:** 12/17/2019  
**Time Report Requested:** 10:43:08  
**First Dose M/F:** 02/17/11 / 02/18/11  
**Lab:** BAT

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**ANIMAL ID:** 242

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300242

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus	Interstit Cell	Hyperplasia Atrophy	Moderate Minimal
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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 243

TRT#: 9

SEX: Male

DAY ON TEST: 455

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300243

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            | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

OBSERVATIONS

- |               |                           |                               |                       |
|---------------|---------------------------|-------------------------------|-----------------------|
| * Bone Marrow |                           | Hypercellularity              | Mild                  |
| * Heart       |                           | Cardiomyopathy                | Moderate              |
|               | Valve                     | Fibrosis                      | Mild                  |
|               | Valve                     | Thrombus                      | Moderate              |
| * Kidney      |                           | Nephropathy                   | Chronicprogr, Minimal |
| * Liver       | Hepatocyte                | Cytoplasmic Alteration        | Marked                |
|               |                           | Eosinophilic Focus            |                       |
|               |                           | Pigment                       | Minimal               |
| * Lung        |                           | Infiltration Cellular         | Histiocyte, Moderate  |
|               |                           | Inflammation                  | Acute, Minimal        |
| * Nose        | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal               |
| * Spleen      |                           | Extramedullary Hematopoiesis  | Mild                  |
| * Testis      | Bilateral, Germinal Epith | Degeneration                  | Minimal               |
| * Thymus      |                           | Atrophy                       | Moderate              |

PRIMARY CAUSE OF DEATH - Heart Cardiomyopathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 244

TRT#: 9

SEX: Male

DAY ON TEST: 734

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Prostate
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Adrenal Medulla
- \* 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
- \* Bone Marrow
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Preputial Gland
- \* Skin
- \* Trachea

OBSERVATIONS

- Blood Vessel
- \* Epididymis
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Testis
- \* Thymus
- Aorta
- Bilateral
- Hepatocyte
- Bile Duct
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- Olfactory Epi
- Acinus
- Acinus
- Pars Distalis
- Bilateral, Germinal Epith
- Bilateral
- [ Degeneration TGLs = 1 - 16+17 ]
- Mineral
- Hypospermia
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Cytoplasmic Alteration
- Hyperplasia
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Atrophy
- Hypertrophy
- Extramedullary Hematopoiesis
- Pigment
- Degeneration
- Edema
- Atrophy
- Minimal
- Marked
- Minimal
- Chronicprogr, Minimal
- Marked
- Minimal
- Mild
- Histiocyte, Mild
- Minimal
- Marked
- Mild
- Mild
- Minimal
- Marked
- Moderate
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 245

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300245

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            | * Preputial Gland         | * Prostate                  | * Seminal Vesicle        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |                           |                               |                        |
|-------------------|---------------------------|-------------------------------|------------------------|
| * Adrenal Cortex  |                           | Hyperplasia                   | Minimal                |
| * Bone Marrow     |                           | Hypercellularity              | Minimal                |
| * Epididymis      | Bilateral, Duct           | Exfoliated Germ Cell          | Minimal                |
|                   | Bilateral                 | Hypospermia                   | Marked                 |
| * Heart           |                           | Cardiomyopathy                | Minimal                |
| * Kidney          |                           | Nephropathy                   | Chronicprogr, Mild     |
| * Liver           |                           | Clear Cell Focus              |                        |
|                   | Hepatocyte                | Cytoplasmic Alteration        | Moderate               |
|                   |                           | Pigment                       | Marked                 |
| * Lung            | Alveolar Epith            | Hyperplasia                   | Mild                   |
|                   |                           | Infiltration Cellular         | Histiocyte, Minimal    |
|                   |                           | Inflammation                  | Granulomatous, Minimal |
| * Nose            | Olfactory Epi             | Accumulation, Hyaline Droplet | Minimal                |
| * Pancreas        | Acinus                    | Adenoma                       | Multiple               |
|                   | Acinus                    | Hyperplasia                   | Moderate               |
|                   | [ Adenoma TGLs = 2 - 18 ] |                               |                        |
| * Pituitary Gland | Pars Distalis             | Hyperplasia                   | Marked                 |
|                   | Pars Distalis             | Hypertrophy                   | Mild                   |
| * Salivary Glands |                           | Inflammation                  | Chronic Active, Mild   |
| * Spleen          |                           | Extramedullary Hematopoiesis  | Minimal                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

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ANIMAL ID: 245

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300245

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ORGAN AND ACCOUNTABLE SITE STATUS

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

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 246

TRT#: 9

SEX: Male

DAY ON TEST: 735

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | 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            | * Nose                   | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                   | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                | * Urinary Bladder           |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                           |  |                              |                    |
|---------------------------|--|------------------------------|--------------------|
| * Bone Marrow             |  | Hypercellularity             | Mild               |
| * Intestine Large, Colon  |  | Parasite Metazoan            |                    |
| * Intestine Large, Rectum |  | Parasite Metazoan            |                    |
| * Kidney                  |  | Nephropathy                  | Chronicprogr, Mild |
| * Liver                   | Hepatocyte                                 | Clear Cell Focus             |                    |
|                           |  | Cytoplasmic Alteration       | Marked             |
|                           |  | Eosinophilic Focus           |                    |
|                           |  | Hepatocellular Carcinoma     |                    |
|                           |  | Pigment                      | Moderate           |
|                           | [ Hepatocellular Carcinoma TGLs = 3 - 19 ] |                              |                    |
| * Lung                    |  | Infiltration Cellular        | Histiocyte, Mild   |
| * Pancreas                | Acinus                                     | Adenoma                      |                    |
|                           | [ Adenoma TGLs = 1 - 18 ]                  |                              |                    |
| * Pituitary Gland         | Pars Distalis                              | Hyperplasia                  | Marked             |
|                           | Pars Distalis                              | Hypertrophy                  | Mild               |
| * Preputial Gland         |  | Inflammation                 | Chronic, Mild      |
|                           | [ Inflammation TGLs = 2 - 14 ]             |                              |                    |
| * Spleen                  |  | Extramedullary Hematopoiesis | Minimal            |
|                           |  | Pigment                      | Minimal            |
| * Testis                  | Bilateral, Germinal Epith                  | Degeneration                 | Mild               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 246

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300246

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Thymus	Bilateral	Edema Atrophy	Minimal Mild
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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 247

TRT#: 9

SEX: Male

DAY ON TEST: 684

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Epididymis
  - Bilateral, Duct
  - Bilateral
- \* Harderian Gland
- \* Heart
- \* Kidney
- \* Liver
  - Hepatocyte
  - Exfoliated Germ Cell
  - Hypospermia
  - Fibrosis
  - Schwannoma Malignant
  - Nephropathy
  - Basophilic Focus
  - Cytoplasmic Alteration
  - Hepatocellular Carcinoma
  - Necrosis
  - Pigment
- \* Lung
  - [ Hepatocellular Carcinoma TGLs = 2 - 18 ]
  - [ Infiltration Cellular TGLs = 4 - 6+7 ]
  - Infiltration Cellular
- \* Nose
  - Olfactory Epi
- \* Pancreas
  - Acinus
- \* Pituitary Gland
  - Pars Distalis
- \* Spleen
  - Accumulation, Hyaline Droplet
  - Hyperplasia
  - Hypertrophy
  - Extramedullary Hematopoiesis
  - Pigment
- \* Testis
  - Bilateral, Germinal Epith
  - Bilateral
  - Interstitial Cell
  - Degeneration
  - Edema
  - Hyperplasia

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

---

ANIMAL ID: 247

TRT#: 9

SEX: Male

DAY ON TEST: 684

DOSE: 10000 ppm Male

DISP: Natural Death

HISTO: 1300247

---

ORGAN AND ACCOUNTABLE SITE STATUS

---

[ Degeneration TGLs = 1 - 16+17 ]

\* Thymus

Atrophy

Moderate

---

PRIMARY CAUSE OF DEATH

- Heart Schwannoma Malignant

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 248

TRT#: 9

SEX: Male

DAY ON TEST: 733

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300248

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
- \* Trachea
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Stomach, Glandular
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Seminal Vesicle
- \* Thyroid Gland

OBSERVATIONS

- \* Epididymis
  - Bilateral, Duct
  - Bilateral
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
  - Hepatocyte
  - Bile Duct
- [ Eosinophilic Focus TGLs = 3,6 - 21 ]
- \* Lung
  - [ Infiltration Cellular TGLs = 5 - 6+7 ]
- \* Nose
- \* Pancreas
  - Olfactory Epi
  - Acinus
  - Acinus
- [ Adenoma TGLs = 1,2 - 9+19+20 ]
- \* Pituitary Gland
  - Pars Distalis
  - Pars Distalis
- \* Spleen
- \* Testis
  - Bilateral, Germinal Epith
  - Bilateral
- Exfoliated Germ Cell
- Hypospermia
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Eosinophilic Focus
- Hyperplasia
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Hyperplasia
- Hypertrophy
- Pigment
- Degeneration
- Edema
- Mild
- Marked
- Chronicprogr, Minimal
- Moderate
- Minimal
- Moderate
- Histiocyte, Moderate
- Mild
- Multiple
- Marked
- Minimal
- Mild
- Mild
- Marked
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 248

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300248

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Degeneration TGLs = 4 - 16+17 ]

\* Thymus

Atrophy

Minimal

---



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 249

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 10000 ppm Male

**DISP:** Terminal Sacrifice

**HISTO:** 1300249

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

* Testis	Bilateral, Germinal Epith	Degeneration	Marked
	Bilateral	Edema	Moderate
* Thymus		Atrophy	Mild

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 250

TRT#: 9

SEX: Male

DAY ON TEST: 734

DOSE: 10000 ppm Male

DISP: Terminal Sacrifice

HISTO: 1300250

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
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - \* Epididymis
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Pancreas
  - \* Pituitary Gland
  - \* Spleen
  - \* Testis
  - \* Thymus
- [ Hepatocellular Carcinoma TGLs = 1 - 18 ]
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- Bilateral, Duct  
Bilateral
- Hepatocyte
- Hypercellularity  
Exfoliated Germ Cell  
Hypospermia  
Nephropathy  
Cytoplasmic Alteration  
Hepatocellular Carcinoma  
Pigment
- Infiltration Cellular  
Inflammation
- Accumulation, Hyaline Droplet  
Hyperplasia  
Hypertrophy  
Extramedullary Hematopoiesis  
Pigment  
Degeneration  
Edema  
Polyarteritis Nodosa  
Atrophy
- Mild  
Mild  
Marked  
Chronicprogr, Minimal  
Moderate  
Mild  
Histiocyte, Mild  
Granulomatous, Minimal  
Minimal  
Minimal  
Mild  
Minimal  
Mild  
Marked  
Moderate  
Minimal  
Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 251

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300266

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          |

OBSERVATIONS

- |                 |  |                               |                       |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow   |  | Hypercellularity              | Mild                  |
| * Kidney        |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver         |  | Clear Cell Focus              |                       |
|                 |  | Pigment                       | Minimal               |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Mild      |
|                 | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                       |
| * Mammary Gland |  | Fibroadenoma                  |                       |
|                 | [ Fibroadenoma TGLs = 2 - 18 ]           |                               |                       |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal               |
| * Ovary         | Bilateral                                | Atrophy                       | Minimal               |
|                 |  | Luteoma                       |                       |
| * Spleen        |  | Extramedullary Hematopoiesis  | Mild                  |
|                 |  | Pigment                       | Mild                  |
| * Thymus        |  | Atrophy                       | Moderate              |
| * Thyroid Gland | C Cell                                   | Hyperplasia                   | Moderate              |
| * Uterus        | Endometrium                              | Hyperplasia                   | Cystic, Mild          |
|                 | Endometrium                              | Metaplasia                    | Squamous, Moderate    |

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 253

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300268

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     | * Liver                     |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland          | * Ovary                     |
| * Parathyroid Gland      | * Salivary Glands          | * Skin                   | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Trachea                  | * Urinary Bladder        |                             |

OBSERVATIONS

- |                           |  |                               |                       |
|---------------------------|--|-------------------------------|-----------------------|
| * Bone Marrow             |  | Hypercellularity              | Mild                  |
| * Heart                   |  | Cardiomyopathy                | Minimal               |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                       |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Minimal |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild      |
|                           |  | Inflammation                  | Chronic Active, Mild  |
|                           | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                       |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Pancreas                | Acinus                                   | Atrophy                       | Minimal               |
| * Pituitary Gland         | Pars Distalis                            | Adenoma                       |                       |
|                           | [ Adenoma TGLs = 2 - 11 ]                |                               |                       |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                  |
|                           |  | Pigment                       | Mild                  |
| * Thymus                  |  | Atrophy                       | Mild                  |
| * Thyroid Gland           | C Cell                                   | Hyperplasia                   | Marked                |
| * Uterus                  | Endometrium                              | Hyperplasia                   | Cystic, Minimal       |
|                           | Endometrium                              | Metaplasia                    | Squamous, Moderate    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 254

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300269

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   |
| * Ovary                   | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

OBSERVATIONS

- |                 |  |                               |                       |
|-----------------|--|-------------------------------|-----------------------|
| * Bone Marrow   |  | Hypercellularity              | Moderate              |
| * Kidney        |  | Nephropathy                   | Chronicprogr, Minimal |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                 | [ Infiltration Cellular TGLs = 3 - 6+7 ] | Inflammation                  | Granulomatous, Mild   |
| * Mammary Gland |  | Fibroadenoma                  | Multiple              |
|                 | [ Fibroadenoma TGLs = 1,2 - 19+20 ]      | Hyperplasia                   | Mild                  |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
|                 | Respirat Epith                           | Metaplasia                    | Squamous, Minimal     |
| * Spleen        |  | Extramedullary Hematopoiesis  | Moderate              |
|                 |  | Pigment                       | Minimal               |
| * Thymus        |  | Atrophy                       | Moderate              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 255

TRT#: 2

SEX: Female

DAY ON TEST: 489

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300270

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          |

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow     |  | Hypercellularity              | Marked                |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |  | Hepatodiaphragmatic Nodule    |                       |
|                   | [ Hepatodiaphragmatic Nodule TGLs = 2 - 19 ] |                               |                       |
| * 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                       | Mild                  |
| * Pituitary Gland | Pars Distalis                                | Hyperplasia                   | Mild                  |
| * Spleen          |  | Extramedullary Hematopoiesis  | Moderate              |
|                   |  | Pigment                       | Minimal               |
| * Thymus          |  | Atrophy                       | Moderate              |
| * Uterus          | Endometrium                                  | Metaplasia                    | Squamous, Moderate    |
|                   |  | Polyp Stromal                 |                       |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 256

TRT#: 2

SEX: Female

DAY ON TEST: 741

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | 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   |
| * Mammary Gland           | * Pancreas                  | * Parathyroid Gland      | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

- |                   |  |                               |                         |
|-------------------|--|-------------------------------|-------------------------|
| * Adrenal Medulla |  | Hyperplasia                   | Minimal                 |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal   |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild        |
|                   |  | Inflammation                  | Chronic Active, Minimal |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                         |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                    |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                    |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Marked                  |
| * Spleen          |  | Extramedullary Hematopoiesis  | Minimal                 |
|                   |  | Pigment                       | Mild                    |
| * Thymus          |  | Atrophy                       | Mild                    |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Mild            |
|                   |  | Inflammation                  | Suppurative, Minimal    |
|                   | Endometrium                              | Metaplasia                    | Squamous, Minimal       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 257

TRT#: 2

SEX: Female

DAY ON TEST: 741

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300272

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      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                  |   |                               |                       |
|------------------|---|-------------------------------|-----------------------|
| * Clitoral Gland |   | Squamous Cell Papilloma       |                       |
|                  | [ Squamous Cell Papilloma TGLs = 1 - 18 ] |                               |                       |
| * Kidney         |   | Nephropathy                   | Chronicprogr, Minimal |
| * Liver          |   | Basophilic Focus              |                       |
|                  |   | Cholangioma                   |                       |
|                  |   | Clear Cell Focus              |                       |
|                  | Bile Duct                                 | Hyperplasia                   | Minimal               |
|                  | [ Cholangioma TGLs = 2 - 19 ]             |                               |                       |
| * Lung           |   | Infiltration Cellular         | Histiocyte, Moderate  |
|                  |   | Inflammation                  | Chronic Active, Mild  |
|                  | Alveolus                                  | Metaplasia                    | Squamous, Moderate    |
|                  | [ Infiltration Cellular TGLs = 3 - 6+7 ]  |                               |                       |
| * Mammary Gland  |   | Hyperplasia                   | Mild                  |
| * Nose           | Olfactory Epi                             | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary          | Bilateral                                 | Atrophy                       | Mild                  |
| * Spleen         |   | Extramedullary Hematopoiesis  | Mild                  |
|                  |   | Pigment                       | Mild                  |
| * Thymus         |   | Atrophy                       | Mild                  |
| * Thyroid Gland  | C Cell                                    | Carcinoma                     |                       |
|                  | [ Carcinoma TGLs = 4 - 11 ]               |                               |                       |
| * Uterus         |   | Adenomyosis                   | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 258

TRT#: 2

SEX: Female

DAY ON TEST: 741

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300273

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	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Bile Duct	Cyst	
[ Cyst TGLs = 3 - 19 ]			
* Lung		Infiltration Cellular	Histiocyte, Moderate
[ Infiltration Cellular TGLs = 1 - 6+7 ]		Inflammation	Chronic Active, Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
[ Hemorrhage TGLs = 4 - 20 ]	Mediastinal	Pigment	Mild
* Mammary Gland		Hyperplasia	Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Ovary		Cyst	
[ Cyst TGLs = 5 - 15 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Accessory Spleen	
[ Accessory Spleen TGLs = 2 - 18 ]		Extramedullary Hematopoiesis	Mild
* Thymus		Pigment	Mild
* Thyroid Gland	C Cell	Atrophy	Moderate
		Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 259

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300274

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   |
| * Mammary Gland           | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |               |  |                               |                         |
|---------------|--|-------------------------------|-------------------------|
| * Bone Marrow |  | Hypercellularity              | Moderate                |
| * Liver       |  | Extramedullary Hematopoiesis  | Minimal                 |
| * Lung        |  | Infiltration Cellular         | Histiocyte, Moderate    |
|               |  | Inflammation                  | Chronic Active, Minimal |
|               | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                         |
| * Nose        | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                    |
| * Ovary       | Bilateral                                | Atrophy                       | Mild                    |
|               |  | Cyst                          |                         |
| * Spleen      |  | Extramedullary Hematopoiesis  | Mild                    |
| * Thymus      |  | Atrophy                       | Moderate                |
| * Uterus      | Endometrium                              | Adenocarcinoma                |                         |
|               |  | Hyperplasia                   | Adenomatous, Mild       |
|               | Endometrium                              | Metaplasia                    | Squamous, Mild          |
|               |  | Polyp Stromal                 |                         |



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 260

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 19 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Uterus
- Endometrium
- Endometrium
- Hypercellularity
- Schwannoma Malignant
- Nephropathy
- Angiectasis
- Basophilic Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenomyosis
- Hyperplasia
- Metaplasia
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Chronic Active, Minimal
- Mild
- Mild
- Mild
- Moderate
- Mild
- Minimal
- Mild
- Cystic, Mild
- Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 261

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300276

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          |                           |

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Bone Marrow     |  | Hypercellularity              | Mild                   |
| * Heart           |  | Cardiomyopathy                | Minimal                |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver           |  | Eosinophilic Focus            |                        |
|                   |  | Mixed Cell Focus              |                        |
|                   | [ Mixed Cell Focus TGLs = 3 - 19 ]       |                               |                        |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild       |
|                   |  | Inflammation                  | Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 6 - 6+7 ] |                               |                        |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                   |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                   |
|                   | Paraovarian                              | Cyst                          |                        |
|                   | [ Cyst TGLs = 1 - 15 ]                   |                               |                        |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Moderate               |
|                   | [ Hyperplasia TGLs = 5 - 20 ]            |                               |                        |
| * Spleen          |  | Extramedullary Hematopoiesis  | Minimal                |
|                   |  | Pigment                       | Moderate               |
| * Thymus          |  | Atrophy                       | Mild                   |
| * Thyroid Gland   | C Cell                                   | Hyperplasia                   | Marked                 |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Moderate       |
|                   | Endometrium                              | Metaplasia                    | Squamous, Minimal      |
|                   | [ Hyperplasia TGLs = 2 - 16+17 ]         |                               |                        |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 263

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Inflammation	Chronic Active, Marked
[ Inflammation TGLs = 2 - 14 ]			
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Bile Duct	Cyst	
* Lung		Infiltration Cellular	Histiocyte, Moderate
[ Infiltration Cellular TGLs = 3 - 6+7 ]		Inflammation	Granulomatous, Mild
* Mammary Gland		Fibroadenoma	
[ Fibroadenoma TGLs = 1 - 18 ]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	Bilateral, C Cell	Adenoma	
* Uterus	Endometrium	Atypical Hyperplasia	Minimal
	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Metaplasia	Squamous, Mild
		Polyp Stromal	Multiple

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 264

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300279

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                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

OBSERVATIONS

- |                  |               |                               |                        |
|------------------|---------------|-------------------------------|------------------------|
| * Adrenal Cortex |               | Degeneration                  | Cystic, Minimal        |
| * Bone Marrow    |               | Hypercellularity              | Mild                   |
| * Kidney         |               | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver          |               | Eosinophilic Focus            |                        |
|                  |               | Mixed Cell Focus              |                        |
| * Lung           |               | Infiltration Cellular         | Histiocyte, Moderate   |
|                  |               | Inflammation                  | Granulomatous, Minimal |
| * Mammary Gland  |               | Hyperplasia                   | Mild                   |
| * Nose           | Olfactory Epi | Accumulation, Hyaline Droplet | Moderate               |
| * Spleen         |               | Extramedullary Hematopoiesis  | Mild                   |
|                  |               | Pigment                       | Mild                   |
| * Thymus         |               | Atrophy                       | Moderate               |
| * Thyroid Gland  | C Cell        | Hyperplasia                   | Moderate               |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 265

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300280

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
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - \* Liver
  - \* Lung
  - [ Infiltration Cellular TGLs = 4 - 6+7 ]
  - \* Mammary Gland
  - [ Inflammation TGLs = 1 - 18 ]
  - \* Nose
  - \* Ovary
  - [ Cyst TGLs = 2 - 15 ]
  - \* Pituitary Gland
  - [ Adenoma TGLs = 3 - 11 ]
  - \* Spleen
  - \* Thymus
  - \* Uterus
- |  |               |                               |                         |
|--|---------------|-------------------------------|-------------------------|
|  | Bile Duct     | Hypercellularity              | Mild                    |
|  |               | Hyperplasia                   | Minimal                 |
|  |               | Infiltration Cellular         | Histiocyte, Moderate    |
|  |               | Inflammation                  | Chronic Active, Minimal |
|  |               | Inflammation                  | Chronic, Mild           |
|  | Olfactory Epi | Accumulation, Hyaline Droplet | Mild                    |
|  | Bilateral     | Atrophy                       | Moderate                |
|  | Follicle      | Cyst                          |                         |
|  |               | Granulosa Cell Tumor Benign   |                         |
|  | Pars Distalis | Adenoma                       |                         |
|  |               | Extramedullary Hematopoiesis  | Mild                    |
|  |               | Pigment                       | Mild                    |
|  |               | Atrophy                       | Mild                    |
|  | Endometrium   | Hyperplasia                   | Cystic, Moderate        |
|  | Endometrium   | Metaplasia                    | Squamous, Mild          |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 266

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* 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
- \* Stomach, Glandular

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- Bile Duct
- [ Mixed Cell Focus TGLs = 2 - 19 ]
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
- [ Adenocarcinoma TGLs = 1 - 18 ]
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Hyperplasia
- Mixed Cell Focus
- Infiltration Cellular
- Adenocarcinoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Moderate
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Moderate
- Minimal
- Mild
- Mild
- Mild
- Minimal
- Multiple

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 267

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300282

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       |
| * Trachea                 | * Urinary Bladder           |                          |                            |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Bone Marrow     |  | Hypercellularity              | Marked                 |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver           |  | Extramedullary Hematopoiesis  | Minimal                |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild       |
|                   |  | Inflammation                  | Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                        |
| * Mammary Gland   |  | Fibroadenoma                  | Multiple               |
|                   | [ Fibroadenoma TGLs = 1,2 - 20+21 ]      |                               |                        |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                |
| * Ovary           | Bilateral                                | Atrophy                       | Moderate               |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Mild                   |
| * Spleen          |  | Extramedullary Hematopoiesis  | Moderate               |
| * Thymus          |  | Atrophy                       | Moderate               |
| * Thyroid Gland   | C Cell                                   | Carcinoma                     |                        |
|                   | Follicle                                 | Cyst                          |                        |
|                   | [ Cyst TGLs = 4 - 11 ]                   |                               |                        |
| * Uterus          | Cervix                                   | Cyst                          | Squamous               |
|                   | Endometrium                              | Hyperplasia                   | Cystic, Mild           |
|                   | Endometrium                              | Metaplasia                    | Squamous, Mild         |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 268

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300283

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         | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

OBSERVATIONS

- |                   |  |   |  |
|-------------------|--|---|--|
| * Bone Marrow     |  | Hypercellularity                        | Mild                                     |
| * Heart           |  | Cardiomyopathy                          | Minimal                                  |
| * Kidney          |  | Nephropathy                             | Chronicprogr, Minimal                    |
| * Lung            |  | Infiltration Cellular<br>Inflammation   | Histiocyte, Mild<br>Chronic Active, Mild |
|                   | [ Infiltration Cellular TGLs = 3 - 6+7 ]   |   |  |
| * Mammary Gland   |  | Fibroadenoma                            | Multiple                                 |
|                   | Note: Second fibroadenoma in routine section (abdominal gland whereas TGL-1 was cervical). |   |  |
|                   | [ Fibroadenoma TGLs = 1 - 19 ]   |   |  |
| * Nose            | Olfactory Epi  | Accumulation, Hyaline Droplet           | Minimal                                  |
| * Ovary           | Bilateral  | Atrophy                                 | Mild                                     |
| * Pituitary Gland | Pars Distalis  | Hyperplasia                             | Moderate                                 |
| * Spleen          |  | Extramedullary Hematopoiesis<br>Pigment | Mild<br>Mild                             |
| * Uterus          | Endometrium  | Hyperplasia                             | Cystic, Minimal                          |
|                   | Cervix   | Hypertrophy                             | Moderate                                 |
|                   | Endometrium  | Metaplasia                              | Squamous, Moderate                       |
|                   | [ Hypertrophy TGLs = 2 - 16 ]  |   |  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 269

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300284

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                |
| * Parathyroid Gland         | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Trachea                | * Urinary Bladder          | * Uterus                  |

OBSERVATIONS

- |                   |  |                               |                      |
|-------------------|--|-------------------------------|----------------------|
| * Bone Marrow     |  | Hypercellularity              | Mild                 |
| * Heart           |  | Cardiomyopathy                | Minimal              |
|                   | Schwann Cell                             | Hyperplasia                   | Minimal              |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Mild   |
| * Liver           |  | Clear Cell Focus              |                      |
|                   |  | Necrosis                      | Minimal              |
|                   | [ Necrosis TGLs = 2 - 19 ]               |                               |                      |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate |
|                   | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                      |
| * Mammary Gland   |  | Fibroadenoma                  |                      |
|                   |  | Hyperplasia                   | Moderate             |
|                   | [ Fibroadenoma TGLs = 1 - 20 ]           |                               |                      |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal              |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Moderate             |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                 |
|                   |  | Pigment                       | Minimal              |
| * Thymus          |  | Atrophy                       | Mild                 |
| * Thyroid Gland   | C Cell                                   | Adenoma                       |                      |
|                   | C Cell                                   | Hyperplasia                   | Marked               |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 270

TRT#: 2

SEX: Female

DAY ON TEST: 575

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300285

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      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |                   |   |                               |                         |
|-------------------|---|-------------------------------|-------------------------|
| * Adrenal Cortex  |   | Degeneration                  | Cystic, Minimal         |
| * Bone Marrow     |   | Hypercellularity              | Marked                  |
| * Kidney          |   | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver           |   | Extramedullary Hematopoiesis  | Minimal                 |
| * Lung            |   | Infiltration Cellular         | Histiocyte, Moderate    |
| * Mammary Gland   |   | Adenocarcinoma                |                         |
|                   |   | Fibroadenoma                  |                         |
|                   | [ Adenocarcinoma TGLs = 4 - 19 ]              |                               |                         |
|                   | [ Fibroadenoma TGLs = 1 - 18 ]                |                               |                         |
| * Nose            | Olfactory Epi                                 | Accumulation, Hyaline Droplet | Minimal                 |
|                   |   | Inflammation                  | Chronic Active, Minimal |
| * Ovary           |   | Cyst                          |                         |
| * Pituitary Gland | Pars Distalis                                 | Hyperplasia                   | Minimal                 |
| * Spleen          |   | Extramedullary Hematopoiesis  | Marked                  |
|                   |   | Pigment                       | Minimal                 |
|                   | [ Extramedullary Hematopoiesis TGLs = 3 - 8 ] |                               |                         |
| * Thymus          |   | Atrophy                       | Mild                    |
| * Uterus          | Endometrium                                   | Hyperplasia                   | Cystic, Mild            |
|                   | Endometrium                                   | Metaplasia                    | Squamous, Mild          |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 272

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300287

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
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1,3 - 20+21 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- [ Adenoma TGLs = 2 - 11 ]
- \* Spleen
- \* Thymus
- \* Uterus
- Bile Duct
- Olfactory Epi
- Bilateral
- Pars Distalis
- Endometrium
- Endometrium
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Metaplasia
- Cystic, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Multiple
- Minimal
- Mild
- Minimal
- Cystic, Minimal
- Squamous, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 273

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300288

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
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - Congestion Minimal
  - Pigment Minimal
- \* Intestine Large, Rectum
  - Parasite Metazoan
- \* Kidney
  - Nephropathy Chronicprogr, Minimal
- \* Lung
  - Alveolar Epith
    - Hyperplasia Moderate
    - Infiltration Cellular Histiocyte, Moderate
    - Inflammation Chronic Active, Minimal
- \* Mammary Gland
  - [ Infiltration Cellular TGLs = 3 - 6+7 ]
  - [ Adenocarcinoma TGLs = 1 - 18 ]
  - Adenocarcinoma
- \* Nose
  - Olfactory Epi Accumulation, Hyaline Droplet Minimal
- \* Ovary
  - Bilateral Atrophy Mild
  - Cyst
- \* Spleen
  - [ Cyst TGLs = 2 - 15 ]
  - Extramedullary Hematopoiesis Mild
  - Pigment Mild
- \* Thymus
  - Atrophy Moderate
- \* Uterus
  - Endometrium Atypical Hyperplasia Mild
  - Endometrium Hyperplasia Cystic, Mild
  - Endometrium Metaplasia Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 275

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 ppm Female

DISP: Natural Death

HISTO: 1300290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Parathyroid Gland
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Nose
- \* Stomach, Forestomach
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Liver
- \* Pancreas
- \* Stomach, Glandular

MISSING

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Mammary Gland
- [ Hyperplasia TGLs = 2 - 18 ]
- \* Ovary
- \* Pituitary Gland
- [ Adenoma TGLs = 1 - 11 ]
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- [ Adenoma TGLs = 3 - 11 ]
- \* Uterus
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Hyperplasia
- Atrophy
- Adenoma
- Pigment
- Atrophy
- Adenoma
- Hyperplasia
- Cystic, Minimal
- Marked
- Mild
- Chronicprogr, Minimal
- Moderate
- Mild
- Moderate
- Mild
- Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 276

TRT#: 2

SEX: Female

DAY ON TEST: 741

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pituitary Gland
- [ Adenoma TGLs = 3 - 11 ]
- \* Spleen
- \* Thymus
- \* Uterus
- Degeneration
- Hypercellularity
- Parasite Metazoan
- Nephropathy
- Eosinophilic Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenocarcinoma
- Hyperplasia
- Metaplasia
- Polyp Stromal
- Cystic, Mild
- Mild
- Chronicprogr, Mild
- Histiocyte, Mild
- Chronic Active, Minimal
- Minimal
- Mild
- Mild
- Mild
- Cystic, Mild
- Squamous, Minimal
- Multiple
- [ Adenocarcinoma TGLs = 1 - 16+17 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 277

TRT#: 2

SEX: Female

DAY ON TEST: 468

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300292

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      | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

MISSING

- \* Thymus

OBSERVATIONS

- |                        |  |                               |                            |
|------------------------|--|-------------------------------|----------------------------|
| * Bone Marrow          |  | Hypercellularity              | Moderate                   |
| * Kidney               |  | Nephropathy                   | Chronicprogr, Minimal      |
| * Liver                |  | Extramedullary Hematopoiesis  | Mild                       |
| * Lung                 |  | Adenocarcinoma                | Metastatic (Mammary Gland) |
|                        | [ Adenocarcinoma TGLs = 2,3,4,5,6 - 19+20+21 ] |                               |                            |
| * Mammary Gland        |  | Adenocarcinoma                |                            |
|                        | [ Adenocarcinoma TGLs = 1 - 18 ]               | Hyperplasia                   | Mild                       |
| * Nose                 | Olfactory Epi                                  | Accumulation, Hyaline Droplet | Mild                       |
| * Ovary                |  | Adenocarcinoma                | Metastatic (Mammary Gland) |
| * Spleen               |  | Extramedullary Hematopoiesis  | Moderate                   |
|                        |  | Pigment                       | Minimal                    |
| * Stomach, Forestomach | Epithelium                                     | Hyperplasia                   | Mild                       |
|                        |  | Inflammation                  | Chronic Active, Moderate   |
|                        |  | Ulcer                         | Mild                       |
| Vagina                 |  | Inflammation                  | Moderate                   |
|                        | [ Inflammation TGLs = 7 - 16 ]                 |                               |                            |

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 278

TRT#: 2

SEX: Female

DAY ON TEST: 741

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300293

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
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - Congestion Minimal
  - Hypercellularity Mild
- \* Kidney
  - Nephropathy Chronicprogr, Minimal
  - Basophilic Focus
  - Eosinophilic Focus
- \* Liver
  - Hyperplasia Minimal
- \* Lung
  - Infiltration Cellular Histocyte, Mild
  - Inflammation Chronic Active, Minimal
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Lymph Node, Mandibular
  - Dilation Marked
- [ Dilution TGLs = 1 - 18 ]
- \* Mammary Gland
  - Fibroadenoma
- [ Fibroadenoma TGLs = 2 - 19 ]
- \* Nose
  - Olfactory Epi Accumulation, Hyaline Droplet Minimal
- \* Ovary
  - Bilateral Atrophy Mild
- \* Spleen
  - Extramedullary Hematopoiesis Mild
  - Pigment Minimal
- \* Thymus
  - Atrophy Mild
- \* Thyroid Gland
  - C Cell Adenoma
- \* Uterus
  - Endometrium Atypical Hyperplasia Minimal
  - Endometrium Hyperplasia Cystic, Mild
  - Endometrium Metaplasia Squamous, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 279

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300294

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                |
| * Parathyroid Gland         | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |                   |  |                               |                      |
|-------------------|--|-------------------------------|----------------------|
| * Adrenal Cortex  |  | Degeneration                  | Cystic, Mild         |
| * Bone Marrow     |  | Hypercellularity              | Minimal              |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Mild   |
| * Liver           |  | Basophilic Focus              |                      |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate |
|                   |  | Inflammation                  | Chronic Active, Mild |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                      |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                 |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                 |
|                   | Follicle                                 | Cyst                          |                      |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Moderate             |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                 |
|                   |  | Pigment                       | Mild                 |
| * Thymus          |  | Atrophy                       | Moderate             |
| * Thyroid Gland   | C Cell                                   | Hyperplasia                   | Minimal              |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Minimal      |
|                   | Endometrium                              | Metaplasia                    | Squamous, Mild       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 559

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * 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, Glandular        |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         | * Uterus                    |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |  |  |                               |                            |
|--|--|-------------------------------|----------------------------|
| Blood Vessel   | Aorta                                    | Mineral                       | Mild                       |
| Note: Aorta, cardiac, and renal arteries were mineralized. |  |                               |                            |
| * Bone Marrow  |  | Hypercellularity              | Moderate                   |
| * Heart  | Myocardium                               | Mineral                       | Mild                       |
| * Kidney   |  | Mineral                       | Mild                       |
| * Lung   |  | Adenocarcinoma                | Metastatic (Mammary Gland) |
|  |  | Infiltration Cellular         | Histiocyte, Mild           |
|  | [ Adenocarcinoma TGLs = 2,3 - 6+19 ]     |                               |                            |
|  | [ Infiltration Cellular TGLs = 4 - 6+7 ] |                               |                            |
| * Mammary Gland  |  | Adenocarcinoma                |                            |
|  |  | Hyperplasia                   | Moderate                   |
|  | [ Adenocarcinoma TGLs = 1 - 18 ]         |                               |                            |
| * Nose   | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                       |
|  |  | Inflammation                  | Chronic Active, Minimal    |
|  | Respirat Epith                           | Metaplasia                    | Squamous, Minimal          |
| * Spleen   |  | Extramedullary Hematopoiesis  | Moderate                   |
|  |  | Pigment                       | Mild                       |
| * Stomach, Forestomach                                     | Epithelium                               | Hyperplasia                   | Mild                       |
|  |  | Inflammation                  | Chronic, Mild              |
| * Thymus   |  | Atrophy                       | Moderate                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

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**ANIMAL ID:** 280

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 559

**DOSE:** 0 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300295

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: Thymus is in B13.

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**PRIMARY CAUSE OF DEATH**

- Mammary Gland Adenocarcinoma

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 282

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300297

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

OBSERVATIONS

- \* Bone Marrow
  - Hypercellularity
  - Moderate
- \* Kidney
  - Nephropathy
  - Chronicprogr, Minimal
- \* Liver
  - Basophilic Focus
  - Clear Cell Focus
  - Cyst
  - Eosinophilic Focus
  - Extramedullary Hematopoiesis
  - Inflammation
  - Minimal
  - Focal, Mild
- \* Lung
  - [ Clear Cell Focus TGLs = 4 - 21 ]
  - [ Cyst TGLs = 1 - 19 ]
  - [ Eosinophilic Focus TGLs = 3 - 20 ]
  - Bile Duct
    - Infiltration Cellular
    - Histiocyte, Moderate
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose
  - Olfactory Epi
  - Accumulation, Hyaline Droplet
  - Minimal
- \* Ovary
  - Bilateral
  - Atrophy
  - Mild
- \* Pituitary Gland
  - Pars Distalis
  - Hyperplasia
  - Minimal
- \* Spleen
  - Extramedullary Hematopoiesis
  - Pigment
  - Mild
  - Minimal
- \* Thymus
  - Atrophy
  - Moderate
- \* Thyroid Gland
  - C Cell
  - Adenoma
- \* Uterus
  - Endometrium
  - Hyperplasia
  - Inflammation
  - Cystic, Marked
  - Chronic Active, Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 10188 - 01

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

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**ANIMAL ID:** 282

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 0 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300297

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Endometrium

Metaplasia

Squamous, Moderate

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 283

TRT#: 2

SEX: Female

DAY ON TEST: 741

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300298

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     | * Liver                     |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland          | * Pancreas                  |
| * Parathyroid Gland      | * Salivary Glands          | * Skin                   | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Trachea                  | * Urinary Bladder        |                             |

OBSERVATIONS

- |                           |                           |                               |                       |
|---------------------------|---------------------------|-------------------------------|-----------------------|
| * Bone Marrow             |                           | Hypercellularity              | Minimal               |
| * Heart                   |                           | Cardiomyopathy                | Minimal               |
| * Intestine Large, Rectum |                           | Parasite Metazoan             |                       |
| * Kidney                  |                           | Nephropathy                   | Chronicprogr, Minimal |
| * Lung                    |                           | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose                    | Olfactory Epi             | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary                   | Bilateral                 | Atrophy                       | Mild                  |
| * Pituitary Gland         | Pars Distalis             | Adenoma                       |                       |
|                           | [ Adenoma TGLs = 1 - 11 ] |                               |                       |
| * Spleen                  |                           | Extramedullary Hematopoiesis  | Minimal               |
|                           |                           | Pigment                       | Mild                  |
| * Thymus                  |                           | Atrophy                       | Mild                  |
| * Thyroid Gland           | C Cell                    | Hyperplasia                   | Marked                |
| * Uterus                  | Endometrium               | Hyperplasia                   | Cystic, Minimal       |
|                           | Endometrium               | Metaplasia                    | Squamous, Mild        |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 284

TRT#: 2

SEX: Female

DAY ON TEST: 741

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                          |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| Blood Vessel                | * Bone                   | * Clitoral Gland           | * Esophagus              |
| * Eye                       | * Harderian Gland        | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * 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        |

OBSERVATIONS

- |                           |  |                               |                         |
|---------------------------|--|-------------------------------|-------------------------|
| * Adrenal Cortex          |  | Metaplasia                    | Osseous, Mild           |
| * Adrenal Medulla         |  | Hyperplasia                   | Minimal                 |
| * Bone Marrow             |  | Hypercellularity              | Mild                    |
| * Brain                   |  | Granular Cell Tumor Benign    |                         |
| * Heart                   |  | Cardiomyopathy                | Minimal                 |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                         |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Minimal   |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Moderate    |
|                           |  | Inflammation                  | Chronic Active, Minimal |
|                           | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                         |
| * Mammary Gland           |  | Fibroadenoma                  |                         |
|                           | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                         |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                 |
| * Ovary                   | Bilateral                                | Atrophy                       | Mild                    |
|                           | Follicle                                 | Cyst                          |                         |
| * Pituitary Gland         | Pars Distalis                            | Hyperplasia                   | Mild                    |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                    |
|                           |  | Pigment                       | Mild                    |
| * Thymus                  |  | Atrophy                       | Minimal                 |
| * Uterus                  | Endometrium                              | Atypical Hyperplasia          | Moderate                |
|                           | Endometrium                              | Hyperplasia                   | Cystic, Minimal         |
|                           | Endometrium                              | Metaplasia                    | Squamous, Moderate      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 285

TRT#: 2

SEX: Female

DAY ON TEST: 741

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300300

**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	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Moderate
* Brain		Granular Cell Tumor Benign	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 2 - 6+7 ]	Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Mild
	Granulosa Cell	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 3 - 11 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Marked
* Uterus		Adenomyosis	Moderate
	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Suppurative, Moderate
	Endometrium	Metaplasia	Squamous, Mild
	[ Inflammation TGLs = 1 - 18 ]		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 286

TRT#: 2

SEX: Female

DAY ON TEST: 694

DOSE: 0 ppm Female

DISP: Natural Death

HISTO: 1300301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
  - [ Degeneration TGLs = 2 - 11 ]
- \* Lung
  - [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Nose
- \* Ovary
- Peritoneum
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
  - [ Hyperplasia TGLs = 1 - 16+17+18 ]

- Degeneration
- Necrosis
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Inflammation
- Atrophy
- Pigment
- Atrophy
- Adenoma
- Hyperplasia
- Metaplasia
- Cystic, Marked
- Mild
- Histiocyte, Mild
- Minimal
- Mild
- Chronic Active, Mild
- Mild
- Mild
- Marked
- Cystic, Marked
- Squamous, Mild

PRIMARY CAUSE OF DEATH - Uterus Endometrium Hyperplasia

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 287

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300302

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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Minimal
* Kidney	Renal Tubule	Cyst	
		Infarct	Minimal
		Nephropathy	Chronicprogr, Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Marked
	[ Fibroadenoma TGLs = 1,2 - 20+21 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Thymus		Atrophy	Moderate



Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

ANIMAL ID: 289

TRT#: 2

SEX: Female

DAY ON TEST: 598

DOSE: 0 ppm Female

DISP: Natural Death

HISTO: 1300304

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
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Heart		Inflammation	Chronic Active, Mild
* Liver		Cholangiofibrosis	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
		Thrombus	Minimal
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Ovary	Bilateral	Atrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Mild
* Uterus		Hemorrhage	Marked
	Endometrium	Metaplasia	Squamous, Marked
	[ Hemorrhage TGLs = 1 - 16+17+18 ]		

PRIMARY CAUSE OF DEATH

- Uterus Hemorrhage



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 290

TRT#: 2

SEX: Female

DAY ON TEST: 658

DOSE: 0 ppm Female

DISP: Natural Death

HISTO: 1300305

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      |
| * Kidney                    | * Liver                  | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |                 |  |                               |                        |
|-----------------|--|-------------------------------|------------------------|
| * Bone Marrow   |  | Hypercellularity              | Marked                 |
| * Heart         |  | Cardiomyopathy                | Minimal                |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Mild       |
|                 |  | Inflammation                  | Granulomatous, Minimal |
|                 | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                        |
| * Mammary Gland |  | Adenocarcinoma                |                        |
|                 |  | Fibroadenoma                  |                        |
|                 | [ Adenocarcinoma TGLs = 1 - 18 ]         |                               |                        |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                   |
| * Ovary         | Bilateral                                | Atrophy                       | Mild                   |
| * Spleen        |  | Extramedullary Hematopoiesis  | Moderate               |
|                 |  | Pigment                       | Minimal                |
| * Uterus        | Endometrium                              | Hyperplasia                   | Cystic, Minimal        |
|                 | Endometrium                              | Metaplasia                    | Squamous, Mild         |

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 291

TRT#: 2

SEX: Female

DAY ON TEST: 668

DOSE: 0 ppm Female

DISP: Natural Death

HISTO: 1300306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* 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
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Glandular
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Trachea

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Hepatocyte
- Pheochromocytoma Benign
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Fatty Change
- Necrosis
- Infiltration Cellular
- Adenocarcinoma
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Hyperplasia
- Atrophy
- Extramedullary Hematopoiesis
- Atrophy
- Adenoma
- Hyperplasia
- Metaplasia
- Marked
- Minimal
- Chronicprogr, Minimal
- Diffuse, Moderate
- Minimal
- Histiocyte, Mild
- Mild
- Mild
- Moderate
- Mild
- Marked
- Marked
- Cystic, Mild
- Squamous, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 292

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300307

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, 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

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Bone Marrow Hypercellularity Marked
- \* Intestine Large, Colon Parasite Metazoan
- \* Kidney Nephropathy Chronicprogr, Minimal
- \* Liver Basophilic Focus
- Clear Cell Focus
- \* Lung Extramedullary Hematopoiesis Minimal
- [ Infiltration Cellular TGLs = 4 - 6 ] Infiltration Cellular Histiocyte, Minimal
- \* Mammary Gland Fibroadenoma
- [ Fibroadenoma TGLs = 1 - 20 ]
- \* Nose Olfactory Epi Accumulation, Hyaline Droplet Mild
- \* Ovary Bilateral Atrophy Mild
- \* Pituitary Gland Pars Distalis Hyperplasia Mild
- \* Spleen Extramedullary Hematopoiesis Mild
- \* Thymus Atrophy Mild
- \* Uterus Endometrium Hyperplasia Cystic, Minimal
- Cervix Inflammation Chronic Active, Mild
- Endometrium Metaplasia Squamous, Mild
- Cervix Sarcoma
- [ Sarcoma TGLs = 2 - 16 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 293

TRT#: 2

SEX: Female

DAY ON TEST: 740

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300308

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         | * Salivary Glands        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

OBSERVATIONS

- |                   |                                |                               |                       |
|-------------------|--------------------------------|-------------------------------|-----------------------|
| * Bone Marrow     |                                | Hypercellularity              | Mild                  |
| * Kidney          |                                | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |                                | Clear Cell Focus              |                       |
| * Lung            |                                | Infiltration Cellular         | Histiocyte, Mild      |
| * Mammary Gland   |                                | Fibroadenoma                  |                       |
|                   |                                | Hyperplasia                   | Moderate              |
|                   | [ Fibroadenoma TGLs = 1 - 19 ] |                               |                       |
| * Nose            | Olfactory Epi                  | Accumulation, Hyaline Droplet | Moderate              |
| * Pituitary Gland | Pars Distalis                  | Hyperplasia                   | Minimal               |
| * Spleen          |                                | Extramedullary Hematopoiesis  | Mild                  |
|                   |                                | Pigment                       | Minimal               |
| * Thymus          |                                | Atrophy                       | Mild                  |
| * Thyroid Gland   | C Cell                         | Adenoma                       |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 294

TRT#: 2

SEX: Female

DAY ON TEST: 643

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Clitoral Gland	* Pituitary Gland
------------------	-------------------

OBSERVATIONS

* Eye	Cornea	Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Lymph Node, Mesenteric		Atrophy	Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
		Cyst	Squamous
Oral Mucosa		Cyst	Squamous
	[ Cyst TGLs = 2 - 1 ]		
* Ovary	Bilateral	Atrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Stomach, Forestomach Ulcer

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 295

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300310

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, 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        | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |                          |  |                               |                       |
|--------------------------|--|-------------------------------|-----------------------|
| * Heart                  |  | Cardiomyopathy                | Minimal               |
| * Intestine Large, Colon |  | Parasite Metazoan             |                       |
| * Kidney                 |  | Nephropathy                   | Chronicprogr, Minimal |
| * Lung                   |  | Infiltration Cellular         | Histiocyte, Mild      |
|                          | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                       |
| * Mammary Gland          |  | Fibroadenoma                  |                       |
|                          | [ Fibroadenoma TGLs = 3 - 20 ]           |                               |                       |
| * Nose                   | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary                  | Bilateral                                | Atrophy                       | Mild                  |
| * Pituitary Gland        | Pars Distalis                            | Adenoma                       |                       |
|                          | [ Adenoma TGLs = 2 - 19 ]                |                               |                       |
| * Spleen                 |  | Extramedullary Hematopoiesis  | Mild                  |
|                          |  | Pigment                       | Mild                  |
| * Thymus                 |  | Atrophy                       | Minimal               |
| * Thyroid Gland          | C Cell                                   | Hyperplasia                   | Moderate              |
| * Uterus                 | Endometrium                              | Hyperplasia                   | Cystic, Minimal       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 296

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300311

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                | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow     |  | Hypercellularity              | Mild                  |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Minimal   |
|                   | [ Infiltration Cellular TGLs = 4 - 6+7 ] |                               |                       |
| * Mammary Gland   |  | Fibroadenoma                  | Multiple              |
|                   | [ Fibroadenoma TGLs = 1,2 - 19+20 ]      |                               |                       |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                  |
| * Pituitary Gland | Pars Distalis                            | Adenoma                       |                       |
|                   | [ Adenoma TGLs = 5- 11 ]                 |                               |                       |
| * Spleen          | White Pulp                               | Atrophy                       | Minimal               |
|                   |  | Extramedullary Hematopoiesis  | Minimal               |
|                   |  | Pigment                       | Moderate              |
| * Thymus          |  | Atrophy                       | Marked                |
| * Thyroid Gland   | C Cell                                   | Adenoma                       |                       |
| * Uterus          | Endometrium                              | Metaplasia                    | Squamous, Mild        |

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 298

TRT#: 2

SEX: Female

DAY ON TEST: 658

DOSE: 0 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300313

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	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Minimal
* Liver		Extramedullary Hematopoiesis	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	Mild
* Ovary	Bilateral	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
* Stomach, Glandular		Mineral	Minimal
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Metaplasia	Squamous, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 299

TRT#: 2

SEX: Female

DAY ON TEST: 355

DOSE: 0 ppm Female

DISP: Natural Death

HISTO: 1300314

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                  | * Liver                     | * Lung                     | * Lymph Node, Mesenteric |
| * Mammary Gland           | * Ovary                     | * Pancreas                 | * Parathyroid Gland      |
| * Pituitary Gland         | * Salivary Glands           | * Stomach, Forestomach     | * Stomach, Glandular     |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder          | * Uterus                 |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                           |               |                               |                   |
|---------------------------|---------------|-------------------------------|-------------------|
| * Bone Marrow             |               | Hypercellularity              | Marked            |
| * Intestine Small, Ileum  |               | Parasite Metazoan             |                   |
| Lymph Node                | Mediastinal   | Sarcoma                       | Metastatic (Skin) |
| * Nose                    | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal           |
| * Skin                    | Subcut Tiss   | Sarcoma                       |                   |
| [ Sarcoma TGLs = 1 - 18 ] |               |                               |                   |
| * Spleen                  | White Pulp    | Atrophy                       | Mild              |
|                           |               | Extramedullary Hematopoiesis  | Mild              |
|                           |               | Pigment                       | Mild              |
| * Thymus                  |               | Atrophy                       | Marked            |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 300

TRT#: 2

SEX: Female

DAY ON TEST: 739

DOSE: 0 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 5 - 6+7 ]
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Ovary
- [ Cyst TGLs = 2 - 15 ]
- \* Pituitary Gland
- [ Adenoma TGLs = 4 - 11 ]
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Bile Duct
- Bile Duct
- Olfactory Epi
- Bilateral
- Paraovarian
- Pars Distalis
- White Pulp
- C Cell
- Hyperplasia
- Congestion
- Hypercellularity
- Nephropathy
- Cyst
- Hyperplasia
- Pigment
- Infiltration Cellular
- Atrophy
- Hyperplasia
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Adenoma
- Atrophy
- Pigment
- Atrophy
- Adenoma
- Cyst
- Minimal
- Moderate
- Mild
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Marked
- Moderate
- Mild
- Mild
- Mild
- Moderate
- Marked
- Squamous

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 300

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 0 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300315

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Cyst TGLs = 3 - 16 ]

Endometrium

Hyperplasia

Cystic, Minimal

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300316

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
- \* Uterus
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Glandular

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- [ Cyst TGLs = 2 - 18 ]
- \* Lung
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- Bile Duct
- Olfactory Epi
- Follicle
- Pars Distalis
- Bilateral, C Cell
- Hyperplasia
- Hypercellularity
- Nephropathy
- Cyst
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Minimal
- Minimal
- Chronicprogr, Mild
- Histiocyte, Mild
- Granulomatous, Minimal
- Mild
- Moderate
- Mild
- Minimal
- Mild
- Marked

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 469

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Thymus

OBSERVATIONS

- \* Bone Marrow
  - \* Kidney
  - \* Liver
  - \* Lung
    - [ Infiltration Cellular TGLs = 2 - 6+7 ]
    - Lymph Node
      - Lumbar
      - Axillary
      - [ Infiltration Cellular TGLs = 4 - 20 ]
      - [ Infiltration Cellular TGLs = 3 - 19 ]
  - \* Mammary Gland
    - [ Fibroadenoma TGLs = 1 -18 ]
  - \* Nose
  - \* Spleen
  - \* Thyroid Gland
    - C Cell
    - C Cell
    - [ Carcinoma TGLs = 5 - 11 ]
- Hypercellularity  
Nephropathy  
Extramedullary Hematopoiesis  
Infiltration Cellular  
  
Infiltration Cellular  
Infiltration Cellular  
  
Fibroadenoma  
  
Accumulation, Hyaline Droplet  
Extramedullary Hematopoiesis  
Adenoma  
Carcinoma
- Marked  
Chronicprogr, Minimal  
Minimal  
Histiocyte, Mild  
  
Plasma Cell, Moderate  
Plasma Cell, Marked

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300318

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        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

OBSERVATIONS

- |                   |  |                               |                    |
|-------------------|--|-------------------------------|--------------------|
| * Adrenal Cortex  |  | Angiectasis                   | Mild               |
|                   | [ Angiectasis TGLs = 1 - 18 ]            |                               |                    |
| * Bone Marrow     |  | Hypercellularity              | Mild               |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Mild |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild   |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                    |
| * Mammary Gland   |  | Hyperplasia                   | Mild               |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate           |
| * Ovary           | Bilateral                                | Atrophy                       | Mild               |
| * Pituitary Gland | Pars Distalis                            | Adenoma                       |                    |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild               |
|                   |  | Pigment                       | Mild               |
| * Thymus          |  | Atrophy                       | Moderate           |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Mild       |
|                   |  | Inflammation                  | Suppurative, Mild  |
|                   | Endometrium                              | Metaplasia                    | Squamous, Mild     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300319

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         | * Salivary Glands        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                   |                                |                               |                      |
|-------------------|--------------------------------|-------------------------------|----------------------|
| * Bone Marrow     |                                | Hypercellularity              | Mild                 |
| * Liver           |                                | Clear Cell Focus              |                      |
| * Lung            |                                | Infiltration Cellular         | Histiocyte, Minimal  |
| * Mammary Gland   |                                | Fibroadenoma                  |                      |
|                   | [ Fibroadenoma TGLs = 1 - 18 ] |                               |                      |
| * Nose            | Olfactory Epi                  | Accumulation, Hyaline Droplet | Marked               |
| * Ovary           | Bilateral                      | Atrophy                       | Mild                 |
|                   | Rete Ovarii                    | Cyst                          |                      |
| * Pituitary Gland | Pars Distalis                  | Adenoma                       |                      |
| * Spleen          |                                | Extramedullary Hematopoiesis  | Mild                 |
|                   |                                | Pigment                       | Minimal              |
| * Thymus          |                                | Atrophy                       | Mild                 |
| * Thyroid Gland   | Bilateral, C Cell              | Adenoma                       |                      |
| * Uterus          | Endometrium                    | Atypical Hyperplasia          | Mild                 |
|                   | Endometrium                    | Hyperplasia                   | Cystic, Mild         |
|                   |                                | Inflammation                  | Chronic Active, Mild |
|                   | Endometrium                    | Metaplasia                    | Squamous, Mild       |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300320

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
- \* Kidney
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Pancreas
- \* Parathyroid Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - Hypercellularity
  - Mild
- \* Intestine Large, Rectum
  - Parasite Metazoan
  - Eosinophilic Focus
  - Hepatodiaphragmatic Nodule
  - Mixed Cell Focus
- \* Liver
  - [ Eosinophilic Focus TGLs = 4 - 20 ]
  - [ Hepatodiaphragmatic Nodule TGLs = 1 - 18 ]
- \* Lung
  - Infiltration Cellular
  - Histiocyte, Moderate
- \* Nose
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Olfactory Epi
  - Accumulation, Hyaline Droplet
  - Marked
- \* Ovary
  - Bilateral
  - Atrophy
  - Mild
- \* Pituitary Gland
  - Angiectasis
  - Moderate
- \* Spleen
  - [ Angiectasis TGLs = 3 - 19 ]
  - Extramedullary Hematopoiesis
  - Mild
  - Pigment
  - Mild
- \* Thymus
  - Atrophy
  - Mild
- \* Uterus
  - Endometrium
  - Adenoma
  - Endometrium
  - Hyperplasia
  - Cystic, Moderate
  - Endometrium
  - Metaplasia
  - Squamous, Mild
  - Polyp Stromal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* 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
- \* Uterus
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- [ Eosinophilic Focus TGLs = 2 - 19 ]
- \* Lung
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- Hyperplasia
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Eosinophilic Focus
- Necrosis
- Inflammation
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Pigment
- Atrophy
- Minimal
- Minimal
- Minimal
- Chronicprogr, Moderate
- Minimal
- Granulomatous, Minimal
- Minimal
- Moderate
- Minimal
- Mild
- Minimal
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300322

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 |
| * Ovary                    | * Pancreas                | * Parathyroid Gland         | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | * Uterus                    |                          |

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |  | Inflammation                  | Focal, Minimal        |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild      |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                       |
| * Mammary Gland   |  | Hyperplasia                   | Moderate              |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate              |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal               |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                  |
|                   |  | Pigment                       | Mild                  |
| * Thymus          |  | Atrophy                       | Mild                  |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300323

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                    | * Liver                  |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Pancreas               |
| * Parathyroid Gland        | * Salivary Glands         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

OBSERVATIONS

- |                   |  |   |  |
|-------------------|--|---|--|
| * Lung            |  | Infiltration Cellular<br>Inflammation   | Histiocyte, Moderate<br>Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |   |  |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet           | Mild   |
| * Ovary           | Bilateral                                | Atrophy                                 | Mild   |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                             | Mild   |
| * Spleen          |  | Extramedullary Hematopoiesis<br>Pigment | Mild<br>Minimal                                |
| * Thymus          |  | Atrophy                                 | Mild   |
| * Uterus          | Endometrium<br>Endometrium               | Hyperplasia<br>Metaplasia               | Cystic, Mild<br>Squamous, Minimal              |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
  - [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Ovary
- \* Spleen
- \* Thymus
- \* Uterus
- Hypertrophy
- Hypercellularity
- Nephropathy
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Inflammation
- Metaplasia
- Minimal
- Mild
- Chronicprogr, Minimal
- Histiocyte, Mild
- Moderate
- Mild
- Mild
- Minimal
- Moderate
- Chronic Active, Mild
- Squamous, Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 587

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Liver
- \* Lung
  - [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
  - [ Fibroadenoma TGLs = 1,2 - 18+19 ]
- \* Nose
- \* Ovary
- \* Spleen
- \* Thymus
- Degeneration
- Hypercellularity
- Eosinophilic Focus
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Cyst
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Cystic, Minimal
- Marked
- Histiocyte, Mild
- Multiple
- Mild
- Moderate
- Minimal
- Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300326

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          |

OBSERVATIONS

- |                   |  |                               |                        |
|-------------------|--|-------------------------------|------------------------|
| * Bone Marrow     |  | Hypercellularity              | Moderate               |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver           |  | Basophilic Focus              |                        |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Minimal    |
|                   | [ Infiltration Cellular TGLs = 4 - 6+7 ] |                               |                        |
| * Mammary Gland   |  | Fibroadenoma                  | Multiple               |
|                   | [ Fibroadenoma TGLs = 1,3 - 18+20 ]      |                               |                        |
| * Nose            | 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                   |
| * Uterus          | Endometrium                              | Atypical Hyperplasia          | Mild                   |
|                   |  | Dilation                      | Marked                 |
|                   |  | Inflammation                  | Chronic Active, Marked |
|                   | Endometrium                              | Metaplasia                    | Squamous, Minimal      |
|                   | [ Dilation TGLs = 2 - 19+21+22 ]         |                               |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300327

**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     | * Liver                     |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas               | * Parathyroid Gland         |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Thyroid Gland          | * Trachea                  |                          |                             |

**OBSERVATIONS**

- |                           |  |                               |                        |
|---------------------------|--|-------------------------------|------------------------|
| * Bone Marrow             |  | Hypercellularity              | Moderate               |
| * Heart                   |  | Cardiomyopathy                | Minimal                |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                        |
| * Kidney                  | Pelvis                                   | Dilation                      | Mild                   |
|                           |  | Nephropathy                   | Chronicprogr, Mild     |
|                           | [ Dilation TGLs = 4 - 20 ]               |                               |                        |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild       |
|                           |  | Paranglioma Malignant         | Metastatic (Mesentery) |
|                           | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                        |
| Lymph Node, Mediastinal   |  | Paranglioma Malignant         | Metastatic (Mesentery) |
| * Mammary Gland           |  | Fibroadenoma                  |                        |
|                           |  | Hyperplasia                   | Minimal                |
|                           | [ Fibroadenoma TGLs = 1 - 19 ]           |                               |                        |
| Mesentery                 |  | Paranglioma                   |                        |
|                           | [ Paranglioma TGLs = 2 - 18 ]            |                               |                        |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                |
| * Ovary                   | Bilateral                                | Atrophy                       | Mild                   |
| * Pituitary Gland         | Pars Distalis                            | Hyperplasia                   | Moderate               |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                   |
|                           |  | Pigment                       | Minimal                |
| * Thymus                  |  | Atrophy                       | Mild                   |
| * Urinary Bladder         |  | Paranglioma Malignant         | Metastatic (Mesentery) |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 312

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 300 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300327

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Endometrium

Atypical Hyperplasia

Minimal

Endometrium

Hyperplasia

Cystic, Mild

Endometrium

Metaplasia

Squamous, Minimal

Paraganglioma Malignant

Metastatic (Mesentery)

[ Paraganglioma Malignant TGLs = 5 - 16+17+21 ]

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Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 680

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300328

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Clitoral Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Mild
* Bone	Cartilage, Joint	Degeneration	Minimal
* Bone Marrow		Hypercellularity	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Extramedullary Hematopoiesis	Minimal
* Lung		Adenocarcinoma	Metastatic (Mammary Gland)
		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
	[ Adenocarcinoma TGLs = 1 - 18 ]		
	[ Fibroadenoma TGLs = 2 - 19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Moderate
	[ Atrophy TGLs = 4 - 6 ]		

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300329

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
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hypercellularity	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Inflammation	Chronic Active, Minimal
	Endometrium	Metaplasia	Squamous, Moderate

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300330

**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, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Bone Marrow		Hypercellularity	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Granulomatous, Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Moderate
	Follicle	Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLs = 2 - 18 ]		
* Thymus		Atrophy	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Metaplasia	Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Mild
		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 2 - 19 ]		
* 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, Mild
	Cervix	Metaplasia	Squamous, Marked
	Endometrium	Metaplasia	Squamous, Mild
	[ Metaplasia TGLs = 1 - 18 ]		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 741

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
  - [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
  - [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Spleen
  - [ Accessory Spleen TGLs = 2 - 19 ]
- \* Thymus
- Bile Duct
- Hyperplasia
- Hypercellularity
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Hyperplasia
- Infiltration Cellular
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Accessory Spleen
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Histiocyte, Mild
- Moderate
- Mild
- Mild
- Minimal
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 741

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Bone Marrow
- \* Clitoral Gland
- [ Hyperplasia TGLs = 2 - 14 ]
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- [ Adenoma TGLs = 5 - 11 ]
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- [ Dilation TGLs = 4 - 19 ]
- Duct
- Olfactory Epi
- Bilateral
- Pars Distalis
- C Cell
- Endometrium
- Endometrium
- Hypercellularity
- Hyperplasia
- Metaplasia
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Atrophy
- Hyperplasia
- Adenocarcinoma
- Dilation
- Inflammation
- Metaplasia
- Moderate
- Squamous, Marked
- Squamous, Moderate
- Histiocyte, Moderate
- Granulomatous, Minimal
- Marked
- Mild
- Minimal
- Moderate
- Moderate
- Chronic Active, Mild
- Squamous, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 693

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300334

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       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

OBSERVATIONS

- |                 |  |                               |                      |
|-----------------|--|-------------------------------|----------------------|
| * Bone Marrow   |  | Hypercellularity              | Moderate             |
| * Liver         |  | Necrosis                      | Mild                 |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Moderate |
|                 | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                      |
| * Mammary Gland |  | Fibroadenoma                  |                      |
|                 |  | Hyperplasia                   | Mild                 |
|                 | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                      |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate             |
| * Spleen        | White Pulp                               | Atrophy                       | Moderate             |
|                 |  | Extramedullary Hematopoiesis  | Mild                 |
|                 |  | Pigment                       | Minimal              |
| * Thymus        |  | Atrophy                       | Moderate             |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 697

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300335

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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Adenocarcinoma	Metastatic (Uterus)
		Nephropathy	Chronicprogr, Minimal
* Liver		Adenocarcinoma	Metastatic (Uterus)
	[ Adenocarcinoma TGLs = 4 - 12+20 ]		
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Granulomatous, Minimal
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
		Inflammation	Chronic Active, Minimal
* Ovary		Adenocarcinoma	Metastatic (Uterus)
	Bilateral	Atrophy	Moderate
* Pancreas		Adenocarcinoma	Metastatic (Uterus)
	[ Adenocarcinoma TGLs = 6 - 21 ]		
Peritoneum		Adenocarcinoma	Metastatic (Uterus)
	[ Adenocarcinoma TGLs = 5,8 - 8+23 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 697

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300335

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ORGAN AND ACCOUNTABLE SITE STATUS

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* Thymus		Atrophy	Minimal
* Thyroid Gland	Artery	Degeneration	Hyaline, Moderate
		Necrosis	Marked
	[ Necrosis TGLs = 7 - 22 ]		
* Uterus	Endometrium	Adenocarcinoma	
	[ Adenocarcinoma TGLs = 3 - 19 ]		

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PRIMARY CAUSE OF DEATH - Uterus Endometrium Adenocarcinoma

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300336

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   | * Ovary                  |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands        |
| * Skin                      | * Spleen                 | * Stomach, Glandular       | * Trachea                |
| * Urinary Bladder           | * Uterus                 |                            |                          |

MISSING

- \* Intestine Large, Rectum

OBSERVATIONS

- |                        |  |                               |                         |
|------------------------|--|-------------------------------|-------------------------|
| * Bone Marrow          |  | Hypercellularity              | Marked                  |
| * Kidney               |  | Nephropathy                   | Chronicprogr, Minimal   |
| * Lung                 |  | Infiltration Cellular         | Histiocyte, Mild        |
|                        | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                         |
| * Mammary Gland        |  | Adenoma                       |                         |
|                        |  | Fibroadenoma                  |                         |
|                        | Note: The adenoma is mucinous.           |                               |                         |
|                        | [ Adenoma TGLs = 3 - 19 ]                |                               |                         |
|                        | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                         |
| * Nose                 | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal                 |
| * Stomach, Forestomach | Epithelium                               | Hyperplasia                   | Mild                    |
|                        |  | Inflammation                  | Chronic Active, Minimal |
| * Thymus               |  | Atrophy                       | Mild                    |
| * Thyroid Gland        | C Cell                                   | Hyperplasia                   | Minimal                 |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 580

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300337

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                    | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder         |

OBSERVATIONS

- |                   |  |                               |                      |
|-------------------|--|-------------------------------|----------------------|
| * Adrenal Medulla |  | Pheochromocytoma Benign       |                      |
| * Bone Marrow     |  | Hypercellularity              | Marked               |
| * Liver           |  | Extramedullary Hematopoiesis  | Minimal              |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild     |
|                   | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                      |
| * Mammary Gland   |  | Hyperplasia                   | Marked               |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate             |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                 |
| * Spleen          | White Pulp                               | Atrophy                       | Mild                 |
|                   |  | Extramedullary Hematopoiesis  | Moderate             |
| * Thymus          |  | Atrophy                       | Mild                 |
| * Thyroid Gland   | C Cell                                   | Adenoma                       |                      |
| * Uterus          |  | Dilation                      | Marked               |
|                   |  | Hemorrhage                    | Marked               |
|                   |  | Inflammation                  | Chronic Active, Mild |
|                   | Endometrium                              | Metaplasia                    | Squamous, Marked     |
|                   | [ Dilation TGLs = 1 - 18 ]               |                               |                      |
|                   | [ Metaplasia TGLs = 2 - 19 ]             |                               |                      |

PRIMARY CAUSE OF DEATH - Uterus Hemorrhage

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | 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   |
| * Mammary Gland           | * Pancreas                  | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

- |                      |  |                               |                         |
|----------------------|--|-------------------------------|-------------------------|
| * Adrenal Medulla    |  | Hyperplasia                   | Minimal                 |
| * Liver              |  | Eosinophilic Focus            |                         |
| * Lung               |  | Infiltration Cellular         | Histiocyte, Mild        |
|                      | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                         |
| * Nose               | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                    |
|                      |  | Inflammation                  | Chronic Active, Minimal |
| * Ovary              | Bilateral                                | Atrophy                       | Mild                    |
| * Parathyroid Gland  |  | Hyperplasia                   | Moderate                |
| * Spleen             |  | Extramedullary Hematopoiesis  | Mild                    |
|                      |  | Pigment                       | Minimal                 |
| * Stomach, Glandular |  | Mineral                       | Mild                    |
| * Uterus             | Endometrium                              | Hyperplasia                   | Cystic, Minimal         |
|                      | Endometrium                              | Metaplasia                    | Squamous, Mild          |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 740

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300339

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 |
| * Ovary                    | * Pancreas                | * Parathyroid Gland         | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | * Uterus                    |                          |

OBSERVATIONS

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

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300340

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	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Lung		Infiltration Cellular	Histiocyte, Marked
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 2- 11 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Carcinoma	
	[ Carcinoma TGLs = 1 - 11 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Chronic Active, Minimal
	Endometrium	Metaplasia	Squamous, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300341

**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
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Adrenal Cortex		Atrophy	Marked
		Carcinoma	
	[ Carcinoma TGLs = 1 - 18 ]		
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
	[ Fibroadenoma TGLs = 2 -19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Stomach, Glandular		Mineral	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 634

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
  - \* Bone Marrow
  - \* Liver
  - \* Lung
    - [ Infiltration Cellular TGLs = 2 - 6+7 ]
  - \* Mammary Gland
    - [ Fibroadenoma TGLs = 1- 18 ]
  - \* Nose
  - \* Ovary
    - [ Cyst TGLs = 4 - 20 ]
  - \* Spleen
    - [ Extramedullary Hematopoiesis TGLs = 3 - 19 ]
  - \* Thymus
- |  |                               |                      |
|--|-------------------------------|----------------------|
|  | Thrombus                      | Minimal              |
|  | Hypercellularity              | Marked               |
|  | Necrosis                      | Mild                 |
|  | Infiltration Cellular         | Histiocyte, Moderate |
|  | Fibroadenoma                  |                      |
|  | Hyperplasia                   | Minimal              |
|  | Accumulation, Hyaline Droplet | Moderate             |
|  | Cyst                          |                      |
|  | Atrophy                       | Mild                 |
|  | Extramedullary Hematopoiesis  | Marked               |
|  | Atrophy                       | Moderate             |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

**ANIMAL ID:** 328

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 300 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300343

**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      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Ovary                   | * Pancreas                  |
| * Parathyroid Gland      | * Salivary Glands          | * Skin                    | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          | * Uterus                  |                             |

**OBSERVATIONS**

- |                        |                                |                               |                         |
|------------------------|--------------------------------|-------------------------------|-------------------------|
| * Bone Marrow          |                                | Hypercellularity              | Marked                  |
| * Eye                  | Retina                         | Degeneration                  | Minimal                 |
| * Heart                |                                | Cardiomyopathy                | Minimal                 |
| * Kidney               |                                | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver                |                                | Inflammation                  | Focal, Mild             |
| * Mammary Gland        |                                | Fibroadenoma                  |                         |
|                        |                                | Hyperplasia                   | Mild                    |
|                        | [ Fibroadenoma TGLs = 1 - 18 ] |                               |                         |
| * Nose                 | Olfactory Epi                  | Accumulation, Hyaline Droplet | Moderate                |
| * Pituitary Gland      | Pars Distalis                  | Hyperplasia                   | Mild                    |
| * Spleen               |                                | Extramedullary Hematopoiesis  | Moderate                |
| * Stomach, Forestomach | Epithelium                     | Hyperplasia                   | Minimal                 |
|                        |                                | Inflammation                  | Chronic Active, Minimal |
| * Stomach, Glandular   | Artery                         | Polyarteritis Nodosa          | Minimal                 |
| * Thymus               |                                | Atrophy                       | Mild                    |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 483

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300344

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
- \* Lung
- \* 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

OBSERVATIONS

- \* Bone Marrow
  - \* Kidney
  - \* Nose
  - \* Spleen
  - \* Thymus
  - \* Uterus
  - Endometrium
- Hypercellularity
- Nephropathy
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Atrophy
- Dilation
- Hemorrhage
- Metaplasia
- Marked
- Chronicprogr, Minimal
- Moderate
- Moderate
- Minimal
- Moderate
- Marked
- Squamous, Minimal

[ Dilation TGLs = 1 - 16+17+18 ]

PRIMARY CAUSE OF DEATH

- Uterus Hemorrhage

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 523

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300345

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                    | * Lung                   | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

OBSERVATIONS

- |                        |   |                               |          |
|------------------------|---|-------------------------------|----------|
| * Bone Marrow          |   | Hypercellularity              | Marked   |
| * Liver                |   | Necrosis                      | Mild     |
| * Mammary Gland        |   | Adenocarcinoma                |          |
|                        |   | Hyperplasia                   | Moderate |
|                        | [ Adenocarcinoma TGLs = 1 - 18 ]              |                               |          |
| * Nose                 | Olfactory Epi                                 | Accumulation, Hyaline Droplet | Minimal  |
| * Spleen               | White Pulp                                    | Atrophy                       | Minimal  |
|                        |   | Extramedullary Hematopoiesis  | Moderate |
|                        | [ Extramedullary Hematopoiesis TGLs = 2 - 8 ] |                               |          |
| * Stomach, Forestomach |   | Mineral                       | Minimal  |
| * Thymus               |   | Atrophy                       | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 741

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300346

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      | * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

OBSERVATIONS

- |                 |  |                               |                        |
|-----------------|--|-------------------------------|------------------------|
| * Heart         |  | Cardiomyopathy                | Minimal                |
| * Kidney        |  | Nephropathy                   | Chronicprogr, 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 | Mild                   |
| * Ovary         | Bursa                                    | Cyst                          |                        |
|                 | [ Cyst TGLs = 3 - 19 ]                   |                               |                        |
| * Spleen        |  | Extramedullary Hematopoiesis  | Mild                   |
|                 |  | Pigment                       | Minimal                |
| * Thymus        |  | Atrophy                       | Mild                   |
| * Thyroid Gland | C Cell                                   | Adenoma                       |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 741

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300347

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 |
| * Nose                     | * Ovary                   | * Pancreas                  | * Parathyroid Gland      |
| * Pituitary Gland          | * Salivary Glands         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Trachea                 | * Urinary Bladder           | * Uterus                 |

OBSERVATIONS

- |                 |  |                              |                       |
|-----------------|--|------------------------------|-----------------------|
| * Kidney        |  | Nephropathy                  | Chronicprogr, Minimal |
| * Liver         |  | Basophilic Focus             |                       |
|                 |  | Clear Cell Focus             |                       |
| * Lung          |  | Infiltration Cellular        | Histiocyte, Marked    |
|                 | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                              |                       |
| * Mammary Gland |  | Hyperplasia                  | Moderate              |
| * Spleen        |  | Extramedullary Hematopoiesis | Mild                  |
|                 |  | Pigment                      | Mild                  |
| * Thymus        |  | Atrophy                      | Moderate              |
| * Thyroid Gland | Bilateral, C Cell                        | Adenoma                      |                       |



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 333

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 300 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300348

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Atrophy

Moderate

\* Uterus

Adenomyosis

Mild

Endometrium

Hyperplasia

Cystic, Minimal

Endometrium

Metaplasia

Squamous, Minimal

---





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* 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
- \* Pancreas
- \* Skin
- \* Thyroid Gland
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Liver
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex
  - \* Bone Marrow
  - \* Heart
  - \* Kidney
  - \* Lung
    - [ Infiltration Cellular TGLs = 3 - 6+7 ]
  - \* Mammary Gland
    - [ Adenocarcinoma TGLs = 1 - 18 ]
    - [ Fibroadenoma TGLs = 2 - 19 ]
  - \* Nose
    - Olfactory Epi
  - \* Ovary
    - Olfactory Epi
    - Bilateral
  - \* Spleen
  - \* Uterus
    - Endometrium
    - Endometrium
- Degeneration
  - Hypercellularity
  - Cardiomyopathy
  - Nephropathy
  - Infiltration Cellular
  - Adenocarcinoma
  - Fibroadenoma
  - Accumulation, Hyaline Droplet
  - Inflammation
  - Metaplasia
  - Atrophy
  - Extramedullary Hematopoiesis
  - Pigment
  - Hyperplasia
  - Metaplasia
- Cystic, Mild
  - Mild
  - Minimal
  - Chronicprogr, Minimal
  - Histiocyte, Moderate
  - Moderate
  - Chronic Active, Minimal
  - Respiratory, Minimal
  - Moderate
  - Mild
  - Minimal
  - Cystic, Minimal
  - Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Bone Marrow
- \* Clitoral Gland
  - [ Squamous Cell Carcinoma TGLs = 1 - 18 ]
- \* Islets, Pancreatic
- \* Kidney
- \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- \* Nose
- \* Ovary
  - [ Cyst TGLs = 3 - 15 ]
- \* Spleen
- \* Thymus
- Hypercellularity
- Squamous Cell Carcinoma
- Adenoma
- Nephropathy
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Moderate
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Granulomatous, Mild
- Moderate
- Minimal
- Mild
- Mild
- Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 327

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300353

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      | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           | * Uterus                 |                            |

OBSERVATIONS

- |                   |                                |                               |                     |
|-------------------|--------------------------------|-------------------------------|---------------------|
| * Bone Marrow     |                                | Hypercellularity              | Marked              |
| * Lung            |                                | Infiltration Cellular         | Histiocyte, Minimal |
| * Mammary Gland   |                                | Fibroadenoma                  |                     |
|                   | [ Fibroadenoma TGLs = 1 - 18 ] |                               |                     |
| * Nose            | Olfactory Epi                  | Accumulation, Hyaline Droplet | Moderate            |
| * Ovary           | Bilateral                      | Atrophy                       | Minimal             |
| * Pituitary Gland | Pars Intermed                  | Hyperplasia                   | Minimal             |
| * Spleen          |                                | Extramedullary Hematopoiesis  | Moderate            |
|                   |                                | Pigment                       | Minimal             |
| * Thymus          |                                | Atrophy                       | Minimal             |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 339

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300354

**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     | * Kidney                    |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland          | * Pancreas                  |
| * Parathyroid Gland      | * Salivary Glands          | * Skin                   | * Stomach, Forestomach      |
| * Thymus                 | * Trachea                  |                          |                             |

**OBSERVATIONS**

- |                           |  |                               |                        |
|---------------------------|--|-------------------------------|------------------------|
| * Bone Marrow             |  | Hypercellularity              | Moderate               |
| * Clitoral Gland          |  | Inflammation                  | Chronic Active, Marked |
|                           | [ Inflammation TGLs = 1 - 14 ]           |                               |                        |
| * Intestine Large, Rectum |  | Parasite Metazoan             |                        |
| * Liver                   |  | Basophilic Focus              |                        |
|                           |  | Clear Cell Focus              |                        |
|                           | Bile Duct                                | Cyst                          |                        |
|                           | [ Cyst TGLs = 3,4 - 18+19 ]              |                               |                        |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Mild       |
|                           | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                        |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                   |
| * Ovary                   | Bilateral                                | Atrophy                       | Mild                   |
| * Pituitary Gland         | Pars Distalis                            | Hyperplasia                   | Mild                   |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Minimal                |
|                           |  | Pigment                       | Minimal                |
| * Stomach, Glandular      |  | Mineral                       | Minimal                |
| * Thyroid Gland           | C Cell                                   | Adenoma                       |                        |
| * Urinary Bladder         |  | Schwannoma Malignant          | Metastatic (Vagina)    |
| * Uterus                  | Endometrium                              | Hyperplasia                   | Cystic, Minimal        |
|                           | Endometrium                              | Metaplasia                    | Squamous, Minimal      |
|                           |  | Polyp Stromal                 |                        |
| Vagina                    |  | Schwannoma Malignant          |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 238

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300355

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                     | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Ovary                     | * Pancreas               | * Pituitary Gland          | * Salivary Glands         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        | * Uterus                   |                           |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                 |                                |                               |                       |
|-----------------|--------------------------------|-------------------------------|-----------------------|
| * Bone Marrow   |                                | Hypercellularity              | Marked                |
| * Heart         |                                | Cardiomyopathy                | Minimal               |
| * Kidney        |                                | Nephropathy                   | Chronicprogr, Minimal |
| * Mammary Gland |                                | Fibroadenoma                  |                       |
|                 | [ Fibroadenoma TGLs = 1 - 18 ] |                               |                       |
| * Nose          | Olfactory Epi                  | Accumulation, Hyaline Droplet | Minimal               |
| * Spleen        |                                | Extramedullary Hematopoiesis  | Moderate              |
| * Thymus        |                                | Atrophy                       | Minimal               |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 741

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300356

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 | * Liver                   |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Pancreas                 | * Parathyroid Gland       |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                      |  |                               |                       |
|----------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex     |  | Degeneration                  | Cystic, Minimal       |
|                      |  | Hyperplasia                   | Minimal               |
|                      |  | Thrombus                      | Mild                  |
| * Bone Marrow        |  | Hypercellularity              | Mild                  |
| * Islets, Pancreatic |  | Hyperplasia                   | Mild                  |
| * Kidney             |  | Nephropathy                   | Chronicprogr, Minimal |
| * Lung               |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                      | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                       |
| * Mammary Gland      |  | Fibroadenoma                  | Multiple              |
|                      | [ Fibroadenoma TGLs = 1,2 - 18+19 ]      |                               |                       |
| * Nose               | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal               |
| * Ovary              | Bilateral                                | Atrophy                       | Mild                  |
| * Pituitary Gland    | Pars Distalis                            | Hyperplasia                   | Mild                  |
| * Spleen             |  | Extramedullary Hematopoiesis  | Mild                  |
|                      |  | Pigment                       | Mild                  |
| * Thymus             |  | Atrophy                       | Mild                  |
| * Thyroid Gland      | C Cell                                   | Hyperplasia                   | Moderate              |
| * Uterus             |  | Adenomyosis                   | Mild                  |
|                      | Endometrium                              | Hyperplasia                   | Cystic, Mild          |
|                      | Endometrium                              | Metaplasia                    | Squamous, Minimal     |
|                      |  | Polyp Stromal                 | Multiple              |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 546

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow		Hypercellularity	Minimal
* Brain		Necrosis	Marked
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
Note: Islet adenoma found on recut 09I.			
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Pigment	Moderate
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Chronic Active, Minimal
	Endometrium	Metaplasia	Squamous, Mild

PRIMARY CAUSE OF DEATH - Islets, Pancreatic Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 286

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300358

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      | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |                   |                                |                               |                  |
|-------------------|--------------------------------|-------------------------------|------------------|
| * Bone Marrow     |                                | Hypercellularity              | Moderate         |
| * Lung            |                                | Infiltration Cellular         | Histiocyte, Mild |
| * Mammary Gland   |                                | Fibroadenoma                  |                  |
|                   | [ Fibroadenoma TGLs = 1 - 18 ] |                               |                  |
| * Nose            | Olfactory Epi                  | Accumulation, Hyaline Droplet | Mild             |
| * Ovary           | Bilateral                      | Atrophy                       | Mild             |
| * Pituitary Gland | Pars Distalis                  | Hyperplasia                   | Mild             |
| * Spleen          |                                | Extramedullary Hematopoiesis  | Moderate         |
|                   |                                | Pigment                       | Minimal          |
| * Uterus          |                                | Dilation                      | Moderate         |
|                   |                                | Polyp Stromal                 |                  |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 575

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300359

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         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

OBSERVATIONS

- |                        |                                     |                               |                          |
|------------------------|-------------------------------------|-------------------------------|--------------------------|
| * Adrenal Cortex       |                                     | Degeneration                  | Cystic, Minimal          |
| * Bone Marrow          |                                     | Hypercellularity              | Marked                   |
| * 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 | Moderate                 |
| * Ovary                | Bilateral                           | Atrophy                       | Mild                     |
|                        | Follicle                            | Cyst                          |                          |
| * Spleen               |                                     | Extramedullary Hematopoiesis  | Moderate                 |
|                        |                                     | Pigment                       | Minimal                  |
| * Stomach, Forestomach | Epithelium                          | Hyperplasia                   | Minimal                  |
| * Thymus               |                                     | Atrophy                       | Mild                     |
| * Uterus               |                                     | Inflammation                  | Chronic Active, Moderate |
|                        | Endometrium                         | Metaplasia                    | Squamous, Marked         |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 741

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Kidney
- \* Liver
- \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- \* Skin
  - [ Cyst Epithelial Inclusion TGLs = 1 - 18 ]
- \* Spleen
- \* Thymus
- \* Uterus
- Degeneration
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Hyperplasia
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Adenoma
- Cyst Epithelial Inclusion
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Metaplasia
- Cystic, Minimal
- Chronicprogr, Mild
- Histiocyte, Mild
- Mild
- Marked
- Mild
- Mild
- Mild
- Mild
- Mild
- Moderate
- Cystic, Mild
- Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 370

DOSE: 300 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300361

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       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

OBSERVATIONS

- |                 |                                |                               |                  |
|-----------------|--------------------------------|-------------------------------|------------------|
| * Bone Marrow   |                                | Hypercellularity              | Moderate         |
| * Liver         |                                | Extramedullary Hematopoiesis  | Minimal          |
| * Lung          |                                | Infiltration Cellular         | Histiocyte, Mild |
| * Mammary Gland |                                | Fibroadenoma                  |                  |
|                 |                                | Hyperplasia                   | Minimal          |
|                 | [ Fibroadenoma TGLs = 1 - 18 ] |                               |                  |
| * Nose          | Olfactory Epi                  | Accumulation, Hyaline Droplet | Marked           |
| * Spleen        |                                | Extramedullary Hematopoiesis  | Moderate         |
| * Thymus        |                                | Atrophy                       | Mild             |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 741

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300363

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         |                             |                          |

OBSERVATIONS

- |                   |  |                               |                      |
|-------------------|--|-------------------------------|----------------------|
| * Liver           |  | Eosinophilic Focus            |                      |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                      |
| * Mammary Gland   |  | Hyperplasia                   | Minimal              |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate             |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                 |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal              |
| * Spleen          |  | Pigment                       | Mild                 |
| * Thymus          |  | Atrophy                       | Moderate             |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Moderate     |
|                   | Endometrium                              | Metaplasia                    | Squamous, Minimal    |
|                   |  | Polyp Stromal                 |                      |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 741

DOSE: 300 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* 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

OBSERVATIONS

- \* Adrenal Medulla
  - \* Bone Marrow
  - \* Kidney
  - \* Liver
  - \* Lung
    - [ Infiltration Cellular TGLs = 5 - 6+7 ]
  - \* Mammary Gland
    - [ Fibroadenoma TGLs = 1,2 - 18+19 ]
  - \* Nose
  - \* Ovary
  - \* Pituitary Gland
    - [ Hyperplasia TGLs = 4 - 11 ]
  - \* Spleen
  - \* Thymus
  - \* Uterus
    - [ Squamous Cell Carcinoma TGLs = 3 - 17+20 ]
- Pheochromocytoma Benign
- Hypercellularity
- Nephropathy
- Basophilic Focus
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Squamous Cell Carcinoma
- Marked
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Multiple
- Mild
- Marked
- Minimal
- Moderate
- Minimal
- Moderate
- Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 666

DOSE: 300 ppm Female

DISP: Natural Death

HISTO: 1300365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Moderate
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Necrosis	Mild
* Lung		Histiocytic Sarcoma	Metastatic (Uterus)
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Granulomatous, Minimal
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
		Inflammation	Chronic Active, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
* Ovary	Bilateral	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen	White Pulp	Atrophy	Minimal
		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Atypical Hyperplasia	Minimal
	Endometrium	Histiocytic Sarcoma	
	Endometrium	Metaplasia	Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 350

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 666

**DOSE:** 300 ppm Female

**DISP:** Natural Death

**HISTO:** 1300365

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: See B16A.

[ Histiocytic Sarcoma TGLs = 1,3 - 18+19 ]

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PRIMARY CAUSE OF DEATH

- Uterus Endometrium Histiocytic Sarcoma

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 351

TRT#: 6

SEX: Female

DAY ON TEST: 740

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Skin
- \* Trachea
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular
- \* 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
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose
- \* Ovary
- [ Cyst TGLs = 1 - 15 ]
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Uterus
- Degeneration
- Thrombus
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenomyosis
- Endometrium
- Endometrium
- Cystic, Minimal
- Minimal
- Minimal
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Granulomatous, Minimal
- Mild
- Mild
- Mild
- Minimal
- Minimal
- Mild
- Minimal
- Cystic, Mild
- Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 352

TRT#: 6

SEX: Female

DAY ON TEST: 658

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300367

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	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
		Thrombus	Minimal
* Bone Marrow		Hypercellularity	Marked
* Heart		Cardiomyopathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Mild
* Thymus		Atrophy	Moderate
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 353

TRT#: 6

SEX: Female

DAY ON TEST: 740

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300368

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   | * Mammary Gland           |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |               |  |                               |                         |
|---------------|--|-------------------------------|-------------------------|
| * Bone Marrow |  | Hypercellularity              | Minimal                 |
| * Heart       |  | Cardiomyopathy                | Minimal                 |
| * Kidney      |  | Nephropathy                   | Chronicprogr, Mild      |
| * Lung        |  | Infiltration Cellular         | Histiocyte, Marked      |
|               |  | Inflammation                  | Chronic Active, Minimal |
|               | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                         |
| * Nose        | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                    |
| * Ovary       | Bilateral                                | Atrophy                       | Moderate                |
| * Spleen      |  | Extramedullary Hematopoiesis  | Mild                    |
|               |  | Pigment                       | Mild                    |
| * Thymus      |  | Atrophy                       | Moderate                |
| * Uterus      |  | Inflammation                  | Chronic Active, Mild    |
|               | Endometrium                              | Metaplasia                    | Squamous, Marked        |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 355

TRT#: 6

SEX: Female

DAY ON TEST: 546

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Bone Marrow
  - \* Eye
  - \* Kidney
  - \* Lung
  - \* Nose
  - \* Ovary
  - [ Cyst TGLs = 3 - 15 ]
  - \* Spleen
  - [ Extramedullary Hematopoiesis TGLs = 2 - 8 ]
  - \* Stomach, Forestomach
  - \* Thymus
  - \* Uterus
  - [ Inflammation TGLs = 1 - 17+18+19 ]
- Choroid
- Olfactory Epi
- Bilateral
- Bursa
- Endometrium

- Hypercellularity
- Hyperplasia
- Nephropathy
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Extramedullary Hematopoiesis
- Inflammation
- Atrophy
- Inflammation
- Metaplasia
- Marked
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Mild
- Moderate
- Mild
- Marked
- Acute, Minimal
- Mild
- Chronic Active, Marked
- Squamous, Moderate

PRIMARY CAUSE OF DEATH - Uterus Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 356

TRT#: 6

SEX: Female

DAY ON TEST: 741

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300371

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
- \* Mammary Gland
- \* Skin
- \* Urinary Bladder
- \* Bone
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Forestomach
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Hepatocyte
- Hepatocyte
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- Olfactory Epi
- Bilateral
- Pars Distalis
- C Cell
- Endometrium
- Endometrium
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hypertrophy
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Hyperplasia
- Metaplasia
- Cystic, Mild
- Mild
- Minimal
- Chronicprogr, Mild
- Minimal
- Minimal
- Histiocyte, Mild
- Mild
- Mild
- Mild
- Mild
- Minimal
- Mild
- Cystic, Mild
- Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 357

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300372

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 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			

OBSERVATIONS

* Bone Marrow		Hypercellularity	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Eosinophilic Focus	
	Hepatocyte	Fatty Change	Diffuse, Mild
	[ Fatty Change TGLs = 3 - 18 ]		
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 2 - 6+7 ]	Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Mild
* Parathyroid Gland		Fibrosis	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLs = 1 - 18 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Metaplasia	Squamous, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 359

TRT#: 6

SEX: Female

DAY ON TEST: 741

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300374

**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	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Clitoral Gland

**OBSERVATIONS**

* Adrenal Cortex		Necrosis	Marked
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hypercellularity	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]	Hyperplasia	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Inflammation	Acute, Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 360

TRT#: 6

SEX: Female

DAY ON TEST: 452

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- Blood Vessel
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Esophagus
- \* Intestine Large, Rectum
- \* Parathyroid Gland
- \* Heart
- \* Intestine Small, Duodenum

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone
- \* Bone Marrow
- \* Brain
- \* Clitoral Gland
- \* Eye
- \* Harderian Gland
- \* Intestine Small, Jejunum
- \* Kidney
- \* Liver
- \* Lung
- \* Lymph Node
- \* Lymph Node, Mandibular
- \* Lymph Node, Mesenteric
- Lymphoma Malignant
- Osteopetrosis
- Lymphoma Malignant
- Necrosis
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Accumulation, Hyaline Droplet
- Lymphoma Malignant
- Lymphoma Malignant
- Infiltration Cellular
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant
- Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 360

TRT#: 6

SEX: Female

DAY ON TEST: 452

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300375

ORGAN AND ACCOUNTABLE SITE STATUS

[ Lymphoma Malignant TGLs = 8 - 23 ]

\* Mammary Gland

Lymphoma Malignant

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Mild

\* Ovary

Lymphoma Malignant

Lymphoma Malignant

[ Lymphoma Malignant TGLs = 4 - 15 ]

\* Pancreas

Lymphoma Malignant

\* Pituitary Gland

Lymphoma Malignant

\* Salivary Glands

Lymphoma Malignant

\* Skin

Lymphoma Malignant

\* Spleen

Lymphoma Malignant

[ Lymphoma Malignant TGLs = 3 - 20 ]

\* Stomach, Forestomach

Lymphoma Malignant

\* Stomach, Glandular

Lymphoma Malignant

\* Thymus

Lymphoma Malignant

\* Thyroid Gland

Lymphoma Malignant

\* Trachea

Lymphoma Malignant

\* Urinary Bladder

Lymphoma Malignant

\* Uterus

Lymphoma Malignant

PRIMARY CAUSE OF DEATH

- Spleen Lymphoma Malignant

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 741

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300376

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          |

OBSERVATIONS

- |                   |  |                               |                      |
|-------------------|--|-------------------------------|----------------------|
| * Bone Marrow     |  | Hypercellularity              | Mild                 |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Mild   |
| * Liver           |  | Pigment                       | Minimal              |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                      |
| * Mammary Gland   |  | Hyperplasia                   | Mild                 |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                 |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                 |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Moderate             |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                 |
|                   |  | Pigment                       | Minimal              |
| * Thymus          |  | Atrophy                       | Moderate             |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Mild         |
|                   | Endometrium                              | Metaplasia                    | Squamous, Mild       |
|                   |  | Polyp Stromal                 |                      |

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 634

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300377

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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

\* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Chronic Active, Moderate
	Endometrium	Metaplasia	Squamous, Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300378

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Uterus
- Degeneration
- Hypercellularity
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Inflammation
- Leiomyoma
- Metaplasia
- Cystic, Minimal
- Mild
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Granulomatous, Minimal
- Moderate
- Mild
- Moderate
- Mild
- Mild
- Mild
- Cystic, Mild
- Chronic Active, Minimal
- Squamous, Minimal
- [ Inflammation TGLs = 4 - 17 ]
- [ Leiomyoma TGLs = 3 - 19 ]

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 635

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300379

ORGAN AND ACCOUNTABLE SITE STATUS

\* Spleen

Extramedullary Hematopoiesis

Mild

Leukemia Mononuclear

Pigment

Minimal

[ Leukemia Mononuclear TGLs = 1 - 18 ]

\* Stomach, Forestomach

Leukemia Mononuclear

\* Thymus

Leukemia Mononuclear

\* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 365

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Forestomach
- \* Uterus
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Rectum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Trachea
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Ovary
- \* Skin
- \* Urinary Bladder

MISSING

- \* Intestine Small, Ileum

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Eye
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- Choroid
- Angiectasis
- Hypercellularity
- Hyperplasia
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Degeneration
- Minimal
- Moderate
- Minimal
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Granulomatous, Minimal
- Mild
- Moderate
- Mild
- Mild
- Minimal
- Moderate
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 366

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300381

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       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

OBSERVATIONS

- |                 |  |                               |                         |
|-----------------|--|-------------------------------|-------------------------|
| * Bone Marrow   |  | Hypercellularity              | Marked                  |
| * Liver         | Hepatocyte                               | Cytoplasmic Alteration        | Mild                    |
|                 | Hepatocyte                               | Eosinophilic Focus            |                         |
|                 |  | Hypertrophy                   | Minimal                 |
|                 |  | Mixed Cell Focus              |                         |
| * Lung          |  | Infiltration Cellular         | Histiocyte, Moderate    |
|                 |  | Inflammation                  | Chronic Active, Minimal |
|                 | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                         |
| * Mammary Gland |  | Fibroadenoma                  | Multiple                |
|                 |  | Hyperplasia                   | Mild                    |
|                 | [ Fibroadenoma TGLs = 1,2 - 18+19 ]      |                               |                         |
| * Nose          | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                    |
|                 |  | Inflammation                  | Chronic Active, Minimal |
| * Spleen        |  | Extramedullary Hematopoiesis  | Mild                    |
|                 |  | Pigment                       | Minimal                 |
| * Thymus        |  | Atrophy                       | Moderate                |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 367

TRT#: 6

SEX: Female

DAY ON TEST: 740

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300382

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        |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow     |  | Hypercellularity              | Moderate              |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |  | Eosinophilic Focus            |                       |
|                   |  | Pigment                       | Mild                  |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Marked    |
|                   |  | Inflammation                  | Granulomatous, Mild   |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Mammary Gland   |  | Adenocarcinoma                |                       |
|                   | [ Adenocarcinoma TGLs = 1 - 18 ]         |                               |                       |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                  |
| * Pancreas        | Acinus                                   | Hyperplasia                   | Minimal               |
| * Pituitary Gland | Pars Distalis                            | Adenoma                       |                       |
|                   | [ Adenoma TGLs = 3 - 19 ]                |                               |                       |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                  |
|                   |  | Pigment                       | Moderate              |
| * Thymus          |  | Atrophy                       | Mild                  |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Minimal       |
|                   | Endometrium                              | Metaplasia                    | Squamous, Minimal     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 368

TRT#: 6

SEX: Female

DAY ON TEST: 635

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300383

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			

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
	Hepatocyte	Extramedullary Hematopoiesis	Minimal
* Lung		Hypertrophy	Minimal
	[ Infiltration Cellular TGLs = 3 - 6+7 ]	Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLs = 1,2 - 18+19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Metaplasia	Squamous, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma



**Experiment Number:** 10188 - 01

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

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**ANIMAL ID:** 369

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 1000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300384

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Adenocarcinoma TGLs = 2 - 19 ]

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Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 722

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300386

**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       |
| * Pituitary Gland           | * Salivary Glands        | * Skin                     | * Stomach, Glandular      |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**OBSERVATIONS**

- |                        |  |                               |                        |
|------------------------|--|-------------------------------|------------------------|
| * Bone Marrow          |  | Hypercellularity              | Marked                 |
| * Eye                  | Retina                                   | Dysplasia                     | Minimal                |
| * Kidney               |  | Nephropathy                   | Chronicprogr, Mild     |
| * Liver                |  | Eosinophilic Focus            |                        |
|                        |  | Pigment                       | Minimal                |
| * Lung                 |  | Infiltration Cellular         | Histiocyte, Mild       |
|                        |  | Inflammation                  | Granulomatous, Minimal |
|                        | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                        |
| * Mammary Gland        |  | Fibroadenoma                  | Multiple               |
|                        | [ Fibroadenoma TGLs = 1,2 - 18+19 ]      |                               |                        |
| * Nose                 | Olfactory Epi                            | Accumulation, Hyaline Droplet | Moderate               |
| * Ovary                | Bilateral                                | Atrophy                       | Moderate               |
| * Spleen               |  | Extramedullary Hematopoiesis  | Minimal                |
| * Stomach, Forestomach | Epithelium                               | Hyperplasia                   | Minimal                |
| * Thymus               |  | Atrophy                       | Moderate               |
| * Thyroid Gland        | C Cell                                   | Adenoma                       |                        |
| * Uterus               | Endometrium                              | Hyperplasia                   | Cystic, Minimal        |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300388

**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
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex		Hemorrhage	Mild
	[ Hemorrhage TGLs = 2 - 11 ]		
* Bone Marrow		Hypercellularity	Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
		Pigment	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 1 - 6+7 ]	Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Mild
	Follicle	Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[ Hyperplasia TGLs = 3 - 11 ]		
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Metaplasia	Squamous, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 722

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Stomach, Glandular
- \* Uterus
- Blood Vessel
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Thyroid Gland
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Trachea
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Urinary Bladder

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- [ Vacuolization Cytoplasmic TGLs = 4 - 12+20 ]
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
- [ Adenocarcinoma TGLs = 2 - 19 ]
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Stomach, Forestomach
- Degeneration
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Necrosis
- Vacuolization Cytoplasmic
- Adenocarcinoma
- Infiltration Cellular
- Adenocarcinoma
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Inflammation
- Ulcer
- Cystic, Minimal
- Minimal
- Marked
- Minimal
- Chronicprogr, Minimal
- Mild
- Marked
- Metastatic (Mammary Gland)
- Histiocyte, Mild
- Moderate
- Mild
- Mild
- Moderate
- Minimal
- Chronic Active, Minimal
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 374

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 722

**DOSE:** 1000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300389

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Atrophy

Moderate

---

PRIMARY CAUSE OF DEATH

- Mammary Gland Adenocarcinoma

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 375

TRT#: 6

SEX: Female

DAY ON TEST: 635

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300390

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      | * Trachea                   | * Urinary Bladder        | * Uterus                   |

OBSERVATIONS

- |                   |                              |                               |                        |
|-------------------|------------------------------|-------------------------------|------------------------|
| * Bone Marrow     |                              | Hypercellularity              | Mild                   |
| * Kidney          |                              | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver           |                              | Pigment                       | Minimal                |
| * Lung            |                              | Infiltration Cellular         | Histiocyte, Mild       |
|                   |                              | Inflammation                  | Granulomatous, Minimal |
| * Mammary Gland   |                              | Galactocele                   | Mild                   |
|                   |                              | Hyperplasia                   | Marked                 |
|                   | [ Galactocele TGLs = 2- 18 ] |                               |                        |
| * Nose            | Olfactory Epi                | Accumulation, Hyaline Droplet | Mild                   |
| * Ovary           | Bilateral                    | Atrophy                       | Mild                   |
| * Pituitary Gland | Pars Distalis                | Adenoma                       |                        |
|                   | [ Adenoma TGLs = 1 - 11 ]    |                               |                        |
| * Spleen          |                              | Pigment                       | Moderate               |
| * Thymus          |                              | Atrophy                       | Mild                   |
| * Thyroid Gland   | C Cell                       | Adenoma                       |                        |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 741

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- [ Adenoma TGLs = 3 - 11 ]
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Olfactory Epi
- Bilateral
- Pars Distalis
- Endometrium
- Endometrium
- Pheochromocytoma Benign
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Hyperplasia
- Metaplasia
- Mild
- Minimal
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Granulomatous, Minimal
- Moderate
- Mild
- Minimal
- Minimal
- Mild
- Cystic, Mild
- Squamous, Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 552

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300392

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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone	Cartilage, Joint	Degeneration	Minimal
* Bone Marrow		Hypercellularity	Moderate
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Necrosis	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]	Hyperplasia	Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Moderate
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 379

TRT#: 6

SEX: Female

DAY ON TEST: 545

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Clitoral Gland

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1 - 18 ]
- \* Nose
- \* Spleen
- \* Stomach, Forestomach
- \* Thymus
- Thrombus
- Hypercellularity
- Degeneration
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Hyperplasia
- Atrophy
- Minimal
- Marked
- Mild
- Histiocyte, Minimal
- Moderate
- Mild
- Moderate
- Minimal
- Marked

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 381

TRT#: 6

SEX: Female

DAY ON TEST: 652

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Lung
  - [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
  - [ Adenoma TGLs = 3 - 11 ]
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
  - [ Dilation TGLs = 1 - 16+17+18 ]
- Hyperplasia
- Hypercellularity
- Nephropathy
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Dilation
- Inflammation
- Metaplasia
- Mild
- Moderate
- Chronicprogr, Minimal
- Histiocyte, Moderate
- Mild
- Mild
- Minimal
- Minimal
- Moderate
- Marked
- Chronic Active, Mild
- Squamous, Marked

PRIMARY CAUSE OF DEATH - Uterus Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 382

TRT#: 6

SEX: Female

DAY ON TEST: 741

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300397

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          | * Uterus                  |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |                                |                               |                        |
|-------------------|--------------------------------|-------------------------------|------------------------|
| * Adrenal Cortex  |                                | Degeneration                  | Cystic, Minimal        |
| * Bone Marrow     |                                | Hypercellularity              | Mild                   |
| * Kidney          |                                | Nephropathy                   | Chronicprogr, Minimal  |
| * Liver           |                                | Clear Cell Focus              |                        |
| * Lung            |                                | Inflammation                  | Granulomatous, Minimal |
| * Mammary Gland   |                                | Fibroadenoma                  |                        |
|                   | [ Fibroadenoma TGLs = 1 - 18 ] | Hyperplasia                   | Moderate               |
| * Nose            | Olfactory Epi                  | Accumulation, Hyaline Droplet | Mild                   |
| * Pituitary Gland | Pars Distalis                  | Adenoma                       |                        |
|                   | [ Adenoma TGLs = 2 - 11 ]      |                               |                        |
| * Spleen          |                                | Extramedullary Hematopoiesis  | Mild                   |
|                   |                                | Pigment                       | Minimal                |
| * Thymus          |                                | Atrophy                       | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

**ANIMAL ID:** 383

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 1000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300398

**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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Mild
* Bone Marrow		Hypercellularity	Mild
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver	Bile Duct	Cyst	
	Hepatocyte	Cytoplasmic Alteration	Minimal
	[ Cyst TGLs = 1 - 18 ]		
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 2 - 6+18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Metaplasia	Squamous, Mild

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 384

TRT#: 6

SEX: Female

DAY ON TEST: 498

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300399

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 | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

MISSING

- \* Clitoral Gland

OBSERVATIONS

- |                 |   |                               |                            |
|-----------------|---|-------------------------------|----------------------------|
| * Bone Marrow   |   | Hypercellularity              | Moderate                   |
| * Heart         |   | Cardiomyopathy                | Minimal                    |
| * Kidney        |   | Nephropathy                   | Chronicprogr, Minimal      |
| * Liver         | Hepatocyte  | Cytoplasmic Alteration        | Minimal                    |
|                 | Oval Cell   | Hyperplasia                   | Moderate                   |
|                 | Hepatocyte  | Hypertrophy                   | Mild                       |
|                 |   | Pigment                       | Mild                       |
| * Lung          |   | Adenocarcinoma                | Metastatic (Mammary Gland) |
|                 |   | Infiltration Cellular         | Histiocyte, Minimal        |
|                 | [ Adenocarcinoma TGLs = 4,5,6-6+20+21 (6,20,21) ] |                               |                            |
| * Mammary Gland |   | Adenocarcinoma                | Multiple                   |
|                 | [ Adenocarcinoma TGLs = 1,2 - 18+19 ]             |                               |                            |
| * Nose          | Olfactory Epi                                     | Accumulation, Hyaline Droplet | Marked                     |
| * Ovary         | Bilateral   | Atrophy                       | Mild                       |
|                 | Follicle  | Cyst                          |                            |
| * Spleen        |   | Extramedullary Hematopoiesis  | Moderate                   |
|                 | [ Extramedullary Hematopoiesis TGLs = 3 - 8 ]     |                               |                            |
| * Thymus        |   | Atrophy                       | Marked                     |
| * Uterus        | Endometrium                                       | Hyperplasia                   | Cystic, Mild               |
|                 | Endometrium                                       | Metaplasia                    | Squamous, Mild             |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 384

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 498

**DOSE:** 1000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300399

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Polyp Stromal

Multiple

---

PRIMARY CAUSE OF DEATH

- Mammary Gland Adenocarcinoma

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 385

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Stomach, Glandular
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Rectum
- \* 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
- \* Heart
- \* Intestine Large, Cecum
- \* Kidney
- \* Liver
- [ Hepatocellular Adenoma TGLs = 2 - 18 ]
- \* Lung
- [ Infiltration Cellular TGLs = 5 - 6+7 ]
- \* Mammary Gland
- [ Fibroadenoma TGLs = 1,3 - 19+20 ]
- \* Nose
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- [ Adenoma TGLs = 4 - 11 ]
- \* Spleen
- \* Thymus
- \* Uterus
- Thrombus
- Hypercellularity
- Cardiomyopathy
- Polyarteritis Nodosa
- Nephropathy
- Hepatocellular Adenoma
- Pigment
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Polyarteritis Nodosa
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Inflammation
- Mild
- Moderate
- Minimal
- Mild
- Chronicprogr, Moderate
- Minimal
- Histiocyte, Moderate
- Granulomatous, Minimal
- Multiple
- Moderate
- Marked
- Mild
- Moderate
- Minimal
- Mild
- Cystic, Minimal
- Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

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

**Date Report Requested:** 12/17/2019  
**Time Report Requested:** 10:43:08  
**First Dose M/F:** 02/17/11 / 02/18/11  
**Lab:** BAT

---

**ANIMAL ID:** 385

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 1000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300400

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Endometrium

Metaplasia

Squamous, Minimal

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 386

TRT#: 6

SEX: Female

DAY ON TEST: 196

DOSE: 1000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300401

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           | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

OBSERVATIONS

- |               |               |                               |                       |
|---------------|---------------|-------------------------------|-----------------------|
| * Bone Marrow |               | Hypercellularity              | Minimal               |
| * Kidney      |               | Nephropathy                   | Chronicprogr, Minimal |
| * Lung        |               | Infiltration Cellular         | Histiocyte, Minimal   |
| * Nose        | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal               |
| * Spleen      |               | Pigment                       | Moderate              |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 387

TRT#: 6

SEX: Female

DAY ON TEST: 273

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300402

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      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Ovary                   |
| * Pancreas                  | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |               |                               |                       |
|-------------------|---------------|-------------------------------|-----------------------|
| * Bone Marrow     |               | Hypercellularity              | Mild                  |
| * Brain           |               | Hemorrhage                    | Mild                  |
|                   |               | Necrosis                      | Moderate              |
| * Kidney          |               | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |               | Inflammation                  | Chronic, Minimal      |
|                   |               | Necrosis                      | Minimal               |
| * Mammary Gland   |               | Hyperplasia                   | Mild                  |
| * Nose            | Olfactory Epi | Accumulation, Hyaline Droplet | Mild                  |
| * Pituitary Gland | Pars Distalis | Hyperplasia                   | Minimal               |
| * Spleen          | White Pulp    | Atrophy                       | Moderate              |
|                   |               | Pigment                       | Moderate              |
| * Thymus          |               | Atrophy                       | Minimal               |

PRIMARY CAUSE OF DEATH - Brain Necrosis

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 388

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | 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 | * Lung                   | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Pancreas                 | * Salivary Glands        | * Skin                      | * Stomach, Forestomach   |
| * Trachea                  | * Urinary Bladder        | * Uterus                    |                          |

OBSERVATIONS

- |                               |               |                               |                    |
|-------------------------------|---------------|-------------------------------|--------------------|
| * Adrenal Medulla             |               | Hyperplasia                   | Minimal            |
| * Clitoral Gland              | Duct          | Hyperplasia                   | Mild               |
| [ Hyperplasia TGLs = 1 - 14 ] |               |                               |                    |
| * Heart                       |               | Polyarteritis Nodosa          | Mild               |
| * Intestine Large, Rectum     |               | Polyarteritis Nodosa          | Mild               |
| * Islets, Pancreatic          |               | Adenoma                       |                    |
| * Kidney                      |               | Nephropathy                   | Chronicprogr, Mild |
| * Liver                       | Bile Duct     | Hyperplasia                   | Minimal            |
| * Mammary Gland               |               | Hyperplasia                   | Mild               |
| * Nose                        | Olfactory Epi | Accumulation, Hyaline Droplet | Marked             |
| * Ovary                       | Bilateral     | Atrophy                       | Minimal            |
| * Parathyroid Gland           |               | Hyperplasia                   | Moderate           |
| * Pituitary Gland             | Pars Distalis | Hyperplasia                   | Mild               |
| * Spleen                      |               | Extramedullary Hematopoiesis  | Moderate           |
|                               |               | Pigment                       | Mild               |
| * Stomach, Glandular          |               | Mineral                       | Minimal            |
| * Thymus                      |               | Atrophy                       | Moderate           |
| * Thyroid Gland               | C Cell        | Adenoma                       |                    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 389

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone	Cartilage, Joint	Degeneration	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Marked
* 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	Atypical Hyperplasia	Minimal
	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Metaplasia	Squamous, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 390

TRT#: 6

SEX: Female

DAY ON TEST: 739

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300405

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      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | * Uterus                  |

OBSERVATIONS

- |                   |                                     |                               |                       |
|-------------------|-------------------------------------|-------------------------------|-----------------------|
| * Adrenal Cortex  |                                     | Degeneration                  | Cystic, Minimal       |
| * Bone Marrow     |                                     | Hypercellularity              | Minimal               |
| * Kidney          |                                     | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           |                                     | Clear Cell Focus              |                       |
|                   | Hepatocyte                          | Hypertrophy                   | Minimal               |
| * Lung            |                                     | Infiltration Cellular         | Histiocyte, Mild      |
| * Mammary Gland   |                                     | Fibroadenoma                  | Multiple              |
|                   | [ Fibroadenoma TGLs = 1,2 - 18+19 ] | Hyperplasia                   | Moderate              |
| * Nose            | Olfactory Epi                       | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary           | Bilateral                           | Atrophy                       | Minimal               |
| * Pituitary Gland | Pars Distalis                       | Hyperplasia                   | Mild                  |
| * Spleen          |                                     | Extramedullary Hematopoiesis  | Mild                  |
|                   |                                     | Pigment                       | Minimal               |
| * Thymus          |                                     | Atrophy                       | Minimal               |





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 392

TRT#: 6

SEX: Female

DAY ON TEST: 740

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300407

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          |

OBSERVATIONS

- |                      |  |                               |                       |
|----------------------|--|-------------------------------|-----------------------|
| * Bone Marrow        |  | Hypercellularity              | Mild                  |
| * Kidney             |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver              | Hepatocyte                               | Cytoplasmic Alteration        | Minimal               |
|                      |  | Pigment                       | Minimal               |
| * Lung               |  | Infiltration Cellular         | Histiocyte, Minimal   |
|                      | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                       |
| * Nose               | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary              | Bilateral                                | Atrophy                       | Moderate              |
| * Pituitary Gland    | Pars Distalis                            | Hyperplasia                   | Mild                  |
| * Spleen             |  | Extramedullary Hematopoiesis  | Mild                  |
|                      |  | Pigment                       | Mild                  |
| * Stomach, Glandular | Artery                                   | Mineral                       | Minimal               |
| * Thymus             |  | Atrophy                       | Moderate              |
| * Uterus             | Endometrium                              | Atypical Hyperplasia          | Minimal               |
|                      | Endometrium                              | Hyperplasia                   | Cystic, Mild          |
|                      |  | Inflammation                  | Chronic, Minimal      |
|                      | Endometrium                              | Metaplasia                    | Squamous, Moderate    |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 394

TRT#: 6

SEX: Female

DAY ON TEST: 740

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300409

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                    | * Liver                  |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Pancreas                  | * Parathyroid Gland      |
| * Salivary Glands          | * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Trachea                  | * Urinary Bladder         |                             |                          |

OBSERVATIONS

- |                   |  |  |   |
|-------------------|--|--|---|
| * Lung            | Alveolar Epith                           | Hyperplasia<br>Infiltration Cellular<br>Inflammation | Minimal<br>Histiocyte, Moderate<br>Granulomatous, Minimal |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |  |   |
| * Mammary Gland   |  | Fibroadenoma   |   |
|                   | [ Fibroadenoma TGLs = 1 - 18 ]           |  |   |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet                        | Moderate  |
| * Ovary           | Bilateral                                | Atrophy  | Mild  |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia  | Mild  |
| * Spleen          |  | Extramedullary Hematopoiesis<br>Pigment              | Mild<br>Mild  |
| * Thymus          |  | Atrophy  | Moderate  |
| * Thyroid Gland   | C Cell                                   | Adenoma  |   |
| * Uterus          | Endometrium                              | Hyperplasia  | Cystic, Mild  |
|                   | Endometrium                              | Metaplasia<br>Polyp Stromal                          | Squamous, Mild  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 395

TRT#: 6

SEX: Female

DAY ON TEST: 617

DOSE: 1000 ppm Female

DISP: Natural Death

HISTO: 1300410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Stomach, Forestomach
- \* Thymus
- \* Thyroid Gland
- Vagina
- Hepatocyte
- TGLs = 4 - 6+7 ]
- [ Fibroadenoma TGLs = 1,2 - 18+19 ]
- Olfactory Epi
- Bilateral
- Pars Distalis
- TGLs = 3- 20 ]
- Epithelium
- C Cell
- TGLs = 5 - 11 ]
- Thrombus
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Necrosis
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Extramedullary Hematopoiesis
- Hyperplasia
- Inflammation
- Ulcer
- Atrophy
- Adenoma
- Inflammation
- Minimal
- Marked
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Multiple
- Moderate
- Mild
- Minimal
- Marked
- Mild
- Chronic Active, Mild
- Mild
- Moderate
- Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

**ANIMAL ID:** 396

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 652

**DOSE:** 1000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300411

**ORGAN AND ACCOUNTABLE SITE STATUS**

\* Uterus

Endometrium

Dilation

Inflammation

Metaplasia

Ulcer

Marked

Chronic, Mild

Squamous, Marked

Mild

[ Dilation TGLs = 4 - 16+17+18 ]

PRIMARY CAUSE OF DEATH - Uterus Ulcer

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 397

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Bone Marrow
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Uterus
- Hepatocyte
- Hepatocyte
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- [ Fibroadenoma TGLs = 1 - 18 ]
- Olfactory Epi
- Bilateral
- Pars Distalis
- Endometrium
- Endometrium
- Hypercellularity
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hypertrophy
- Pigment
- Infiltration Cellular
- Fibroadenoma
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Inflammation
- Metaplasia
- Moderate
- Chronicprogr, Mild
- Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Moderate
- Mild
- Mild
- Mild
- Moderate
- Cystic, Mild
- Chronic Active, Moderate
- Squamous, Marked

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 398

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300413

**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, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Intestine Small, Ileum		Parasite Metazoan	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Granulomatous, Minimal
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Mild
	Follicle	Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Stomach, Glandular		Mineral	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Metaplasia	Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 399

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300414

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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
* Bone Marrow		Hypercellularity	Moderate
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
		Pigment	Minimal
* Mammary Gland		Adenocarcinoma	
	[ Adenocarcinoma TGLs = 1 - 18 ]		
* 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	Mild
* Uterus		Adenomyosis	Minimal
	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Metaplasia	Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 400

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Small, Jejunum
- \* Ovary
- \* Skin
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Glandular
- \* Bone
- \* Harderian Gland
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Thyroid Gland
- \* Brain
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Eye
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Kidney
- \* Liver
- [ Hepatodiaphragmatic Nodule TGLs = 2 - 19 ]
- [ Polyarteritis Nodosa TGLs = 1 -18 ]
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Mammary Gland
- Mesentery
- \* Nose
- \* Pancreas
- \* Spleen
- Degeneration
- Hypercellularity
- Degeneration
- Cardiomyopathy
- Polyarteritis Nodosa
- Polyarteritis Nodosa
- Polyarteritis Nodosa
- Polyarteritis Nodosa
- Nephropathy
- Polyarteritis Nodosa
- Cytoplasmic Alteration
- Hepatodiaphragmatic Nodule
- Polyarteritis Nodosa
- Cystic, Minimal
- Moderate
- Minimal
- Minimal
- Mild
- Mild
- Minimal
- Minimal
- Chronicprogr, Mild
- Mild
- Minimal
- Moderate
- Infiltration Cellular
- Hyperplasia
- Polyarteritis Nodosa
- Accumulation, Hyaline Droplet
- Polyarteritis Nodosa
- Extramedullary Hematopoiesis
- Pigment
- Histiocyte, Mild
- Mild
- Moderate
- Minimal
- Marked
- Moderate
- Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

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

**Date Report Requested:** 12/17/2019  
**Time Report Requested:** 10:43:08  
**First Dose M/F:** 02/17/11 / 02/18/11  
**Lab:** BAT

---

**ANIMAL ID:** 400

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 1000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300415

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Stomach, Forestomach

Polyarteritis Nodosa

Minimal

\* Thymus

Atrophy

Moderate

\* Uterus

Cervix

Polyarteritis Nodosa

Minimal

Polyp Stromal

---



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 401

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 639

**DOSE:** 3000 ppm Female

**DISP:** Natural Death

**HISTO:** 1300416

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Squamous Cell Carcinoma

Note: Squamous cell carcinoma also probably present in B17.

[ Squamous Cell Carcinoma TGLs = 6 - 16+18 ]

---

PRIMARY CAUSE OF DEATH - Uterus Squamous Cell Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Urinary Bladder Inflammation

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 402

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300417

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      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |                   |  |                               |                         |
|-------------------|--|-------------------------------|-------------------------|
| * Adrenal Cortex  |  | Hyperplasia                   | Minimal                 |
| * Bone Marrow     |  | Hypercellularity              | Moderate                |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Mild      |
| * Liver           | Bile Duct                                | Cyst                          |                         |
|                   | Hepatocyte                               | Cytoplasmic Alteration        | Minimal                 |
|                   |  | Pigment                       | Minimal                 |
|                   | [ Cyst TGLs = 3 - 20 ]                   |                               |                         |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Mild        |
|                   | [ Infiltration Cellular TGLs = 4 - 6+7 ] | Inflammation                  | Chronic Active, Minimal |
| * Mammary Gland   |  | Fibroadenoma                  | Multiple                |
|                   | [ Fibroadenoma TGLs = 1,2 - 18+19 ]      |                               |                         |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                  |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                    |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Mild                    |
| * Spleen          |  | Pigment                       | Minimal                 |
| * Thymus          |  | Atrophy                       | Mild                    |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Mild            |
|                   | Endometrium                              | Metaplasia                    | Squamous, Mild          |
|                   |  | Polyp Stromal                 |                         |

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 404

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| 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        | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

- |                   |                                |                               |                       |
|-------------------|--------------------------------|-------------------------------|-----------------------|
| * Adrenal Cortex  |                                | Degeneration                  | Cystic, Minimal       |
| * Adrenal Medulla |                                | Hyperplasia                   | Mild                  |
| * Bone Marrow     |                                | Hypercellularity              | Marked                |
| * Heart           |                                | Cardiomyopathy                | Minimal               |
| * Kidney          |                                | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           | Hepatocyte                     | Cytoplasmic Alteration        | Mild                  |
|                   |                                | Pigment                       | Minimal               |
| * Lung            | Alveolar Epith                 | Hyperplasia                   | Mild                  |
|                   |                                | Infiltration Cellular         | Histiocyte, Moderate  |
| * Mammary Gland   |                                | Fibroadenoma                  |                       |
|                   | [ Fibroadenoma TGLs = 1 - 18 ] |                               |                       |
| * Nose            | Olfactory Epi                  | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary           | Bilateral                      | Atrophy                       | Mild                  |
| * Spleen          |                                | Extramedullary Hematopoiesis  | Mild                  |
|                   |                                | Pigment                       | Mild                  |
| * Thymus          |                                | Atrophy                       | Moderate              |
| * Thyroid Gland   | Bilateral, C Cell              | Adenoma                       |                       |
| * Uterus          | Endometrium                    | Adenocarcinoma                |                       |
|                   | Endometrium                    | Hyperplasia                   | Cystic, Mild          |
|                   | Endometrium                    | Metaplasia                    | Squamous, Mild        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 405

TRT#: 8

SEX: Female

DAY ON TEST: 618

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300420

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
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Salivary Glands
- \* Skin
- \* Trachea
- \* Urinary Bladder
- \* Blood Vessel
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Pancreas
- \* Stomach, Glandular
- \* Bone
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Thyroid Gland

OBSERVATIONS

- \* Liver Extramedullary Hematopoiesis Minimal
- \* Lung Infiltration Cellular Histiocyte, Moderate  
[ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose Olfactory Epi Mild
- \* Ovary Bilateral Atrophy Mild
- \* Pituitary Gland Pars Distalis Hyperplasia Mild  
[ Hyperplasia TGLs = 1 - 11 ]
- \* Spleen Extramedullary Hematopoiesis Moderate  
White Pulp Hyperplasia Mild
- \* Stomach, Forestomach Inflammation Chronic Active, Minimal  
Ulcer Minimal
- \* Thymus Atrophy Mild
- \* Uterus Dilation Marked  
Inflammation Chronic Active, Mild  
Endometrium Metaplasia Squamous, Moderate

Note: Probable COD = uterine hemorrhage but only dilation visible microscopically.

[ Dilation TGLs = 3,4 - 16+17 ]

PRIMARY CAUSE OF DEATH - Uterus Dilation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 406

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Skin
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Hepatocyte
- Hepatocyte
- Alveolar Epith
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- Olfactory Epi
- Bilateral
- Pars Distalis
- [ Ulcer TGLs = 1 - 18 ]
- C Cell
- Endometrium
- Endometrium
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Hypertrophy
- Pigment
- Hyperplasia
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Inflammation
- Ulcer
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Hyperplasia
- Inflammation
- Metaplasia
- Mild
- Minimal
- Chronicprogr, Mild
- Mild
- Minimal
- Minimal
- Mild
- Histiocyte, Marked
- Mild
- Mild
- Minimal
- Chronic Active, Mild
- Moderate
- Mild
- Mild
- Mild
- Cystic, Minimal
- Chronic Active, Moderate
- Squamous, Moderate

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 407

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300422

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Thymus		Pigment	Minimal
		Atrophy	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
[ Adenoma TGLs = 8 - 11 ]			
* Uterus		Adenomyosis	Minimal
	Endometrium	Hyperplasia	Cystic, Minimal
		Inflammation	Chronic Active, Minimal
	Endometrium	Metaplasia	Squamous, Mild
		Polyp Stromal	

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 408

TRT#: 8

SEX: Female

DAY ON TEST: 712

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Eye
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Glandular
- Blood Vessel
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Salivary Glands
- \* Trachea
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Skin
- \* Urinary Bladder
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Stomach, Forestomach

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
  - Hyperplasia
  - Leukemia Mononuclear
  - Necrosis
 Minimal
- \* Bone
  - Cranium
  - Osteosarcoma
 Minimal
 

Note: Osteosarcoma is in B01 nasal section, anterior palatal region.
- \* Bone Marrow
  - Hypercellularity
 Moderate
- \* Brain
  - Hemorrhage
  - Leukemia Mononuclear
  - Necrosis
 Minimal
- \* Heart
  - Leukemia Mononuclear
- \* Kidney
  - Leukemia Mononuclear
- \* Liver
  - Hepatocyte
  - Cytoplasmic Alteration
  - Leukemia Mononuclear
 Minimal
- \* Lung
  - Alveolar Epith
  - Hyperplasia
  - Infiltration Cellular
  - Leukemia Mononuclear
 Moderate
 

Histiocyte, Mild
- \* Nose
  - [ Infiltration Cellular TGLs = 1 - 6+7 ]
  - Olfactory Epi
  - Accumulation, Hyaline Droplet
  - Inflammation
 Mild
 

Acute, Minimal
- \* Ovary
  - Bilateral
  - Atrophy
 Mild
- \* Pituitary Gland
  - Pars Distalis
  - Hyperplasia
 Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 408

TRT#: 8

SEX: Female

DAY ON TEST: 712

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300423

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	White Pulp	Leukemia Mononuclear Atrophy	Moderate
* Thymus		Leukemia Mononuclear Atrophy	Moderate
* Thyroid Gland [ Adenoma TGLs = 2 - 11 ]	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Metaplasia	Squamous, Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 409

TRT#: 8

SEX: Female

DAY ON TEST: 741

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300424

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    | * Pancreas               | * Parathyroid Gland        | * Salivary Glands         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                          |  |                               |                       |
|--------------------------|--|-------------------------------|-----------------------|
| * Adrenal Medulla        |  | Infiltration Cellular         | Lymphocyte, Mild      |
| * Bone Marrow            |  | Hypercellularity              | Mild                  |
| * Kidney                 |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                  |  | Clear Cell Focus              |                       |
|                          |  | Eosinophilic Focus            |                       |
|                          | Hepatocyte                               | Hepatocellular Adenoma        |                       |
|                          | [ Eosinophilic Focus TGLs = 3 - 20 ]     | Hypertrophy                   | Minimal               |
|                          | [ Hepatocellular Adenoma TGLs = 2 - 18 ] |                               |                       |
| * Lung                   |  | Infiltration Cellular         | Histiocyte, Minimal   |
|                          | [ Infiltration Cellular TGLs = 4 - 6+7 ] |                               |                       |
| * Lymph Node, Mesenteric |  | Hyperplasia                   | Lymphocyte, Moderate  |
| * Mammary Gland          |  | Fibroadenoma                  |                       |
|                          | [ Fibroadenoma TGLs = 1 - 19 ]           |                               |                       |
| * Nose                   | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal               |
| * Ovary                  | Bilateral                                | Atrophy                       | Mild                  |
| * Pituitary Gland        | Pars Distalis                            | Hyperplasia                   | Minimal               |
| * Spleen                 |  | Extramedullary Hematopoiesis  | Mild                  |
|                          |  | Pigment                       | Minimal               |
| * Thymus                 |  | Atrophy                       | Mild                  |
| * Uterus                 | Endometrium                              | Hyperplasia                   | Cystic, Mild          |
|                          | Endometrium                              | Metaplasia                    | Squamous, Minimal     |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 410

TRT#: 8

SEX: Female

DAY ON TEST: 741

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300425

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
- \* Pancreas
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Uterus
- Blood Vessel
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Trachea
- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Ovary
- \* Skin
- \* Urinary Bladder

OBSERVATIONS

- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- Hepatocyte
- Hepatocyte
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- [ Fibroadenoma TGLs = 1 -- 18 ]
- Olfactory Epi
- Pars Distalis
- C Cell
- Cardiomyopathy
- Nephropathy
- Cytoplasmic Alteration
- Hypertrophy
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Marked
- Granulomatous, Mild
- Marked
- Mild
- Minimal
- Minimal
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 412

TRT#: 8

SEX: Female

DAY ON TEST: 741

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300427

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      |
| * Kidney                    | * 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              | Mild                 |
| * Liver           | Hepatocyte                               | Cytoplasmic Alteration        | Minimal              |
| * Lung            |  | Alveolar/Bronchiolar Adenoma  |                      |
|                   | [ Infiltration Cellular TGLs = 1 - 6+7 ] | Infiltration Cellular         | Histiocyte, Moderate |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                 |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                 |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal              |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                 |
|                   |  | Pigment                       | Mild                 |
| * Thymus          |  | Atrophy                       | Minimal              |
| * Uterus          | Endometrium                              | Metaplasia                    | Squamous, Minimal    |



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 414

TRT#: 8

SEX: Female

DAY ON TEST: 669

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300429

**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	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Thymus

**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Hypercellularity	Marked
* Heart		Cardiomyopathy	Minimal
* Lung		Adenocarcinoma	Metastatic (Mammary Gland)
		Infiltration Cellular	Histiocyte, Mild
	[ Adenocarcinoma TGLs = 3,4,5,6,7 - 20+21+22+23 ]		
* Mammary Gland		Adenocarcinoma	Multiple
		Hyperplasia	Marked
	[ Adenocarcinoma TGLs = 1,2 - 18+19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
	[ Hyperplasia TGLs = 8 - 9 ]		
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 415

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300430

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        | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                        |                               |                               |                      |
|------------------------|-------------------------------|-------------------------------|----------------------|
| * Bone Marrow          |                               | Hypercellularity              | Mild                 |
| * Kidney               |                               | Nephropathy                   | Chronicprogr, Mild   |
| * Liver                | Hepatocyte                    | Cytoplasmic Alteration        | Minimal              |
|                        |                               | Pigment                       | Minimal              |
| * Lung                 |                               | Infiltration Cellular         | Histiocyte, Mild     |
| * Nose                 | Olfactory Epi                 | Accumulation, Hyaline Droplet | Mild                 |
| * Ovary                | Bilateral                     | Atrophy                       | Mild                 |
| * Spleen               |                               | Extramedullary Hematopoiesis  | Mild                 |
|                        |                               | Pigment                       | Mild                 |
| * Stomach, Forestomach | Epithelium                    | Hyperplasia                   | Mild                 |
|                        |                               | Inflammation                  | Chronic Active, Mild |
|                        |                               | Ulcer                         | Mild                 |
|                        | [ Hyperplasia TGLs = 2 - 18 ] |                               |                      |
| * Thymus               |                               | Atrophy                       | Moderate             |
| * Thyroid Gland        | C Cell                        | Adenoma                       |                      |
| * Uterus               | Endometrium                   | Atypical Hyperplasia          | Minimal              |
|                        | Endometrium                   | Hyperplasia                   | Cystic, Mild         |
|                        | Cervix                        | Hypertrophy                   | Moderate             |
|                        | Endometrium                   | Metaplasia                    | Squamous, Mild       |
|                        | [ Hypertrophy TGLs = 1 - 16 ] |                               |                      |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 416

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300431

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         |                             |                          |                            |

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow     |  | Hypercellularity              | Moderate              |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           | Hepatocyte                               | Cytoplasmic Alteration        | Minimal               |
|                   | Hepatocyte                               | Hypertrophy                   | Minimal               |
| * Lung            | [ Infiltration Cellular TGLs = 1 - 6+7 ] | Infiltration Cellular         | Histiocyte, Mild      |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                  |
| * Pituitary Gland | Pars Distalis                            | Adenoma                       |                       |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                  |
|                   |  | Pigment                       | Mild                  |
| * Thymus          |  | Atrophy                       | Mild                  |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Minimal       |
|                   | Endometrium                              | Metaplasia                    | Squamous, Minimal     |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 417

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300432

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      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           | * Uterus                 |                            |

OBSERVATIONS

- |                  |               |                               |                    |
|------------------|---------------|-------------------------------|--------------------|
| * Adrenal Cortex |               | Thrombus                      | Mild               |
| * Kidney         |               | Nephropathy                   | Chronicprogr, Mild |
| * Liver          | Hepatocyte    | Cytoplasmic Alteration        | Mild               |
|                  | Bile Duct     | Hyperplasia                   | Minimal            |
|                  | Hepatocyte    | Hypertrophy                   | Minimal            |
| * Mammary Gland  |               | Fibroadenoma                  |                    |
|                  |               | Hyperplasia                   | Marked             |
| * Nose           | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal            |
| * Ovary          |               | Cyst                          |                    |
| * Spleen         |               | Extramedullary Hematopoiesis  | Mild               |
|                  |               | Pigment                       | Mild               |
| * Thymus         |               | Atrophy                       | Mild               |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 418

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300433

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                 |                             |                          |                            |

OBSERVATIONS

- |                           |  |                               |                       |
|---------------------------|--|-------------------------------|-----------------------|
| * Intestine Large, Rectum |  | Parasite Metazoan             |                       |
| * Kidney                  |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                   | Hepatocyte                               | Cytoplasmic Alteration        | Minimal               |
|                           |  | Pigment                       | Minimal               |
| * Lung                    |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                           | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                       |
| * Mammary Gland           |  | Fibroadenoma                  |                       |
|                           | [ Fibroadenoma TGLs = 1 - 18 ]           |                               |                       |
| * Nose                    | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary                   | Bilateral                                | Atrophy                       | Mild                  |
|                           |  | Cyst                          |                       |
|                           | Follicle                                 | Cyst                          |                       |
|                           | [ Cyst TGLs = 2 - 19 ]                   |                               |                       |
| * Pituitary Gland         | Pars Distalis                            | Hyperplasia                   | Minimal               |
| * Spleen                  |  | Extramedullary Hematopoiesis  | Mild                  |
|                           |  | Pigment                       | Mild                  |
| * Thymus                  |  | Atrophy                       | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 419

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300434

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
- \* Lymph Node, Mesenteric
- \* Stomach, Forestomach
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Stomach, Glandular
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Salivary Glands
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- \* Mammary Gland
- \* Nose
- \* Ovary
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Hepatocyte
- Bile Duct
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- Olfactory Epi
- Bilateral
- Acinus
- Pars Distalis
- [ Adenoma TGLs = 2 - 11 ]
- C Cell
- Endometrium
- Degeneration
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Hyperplasia
- Infiltration Cellular
- Hyperplasia
- Accumulation, Hyaline Droplet
- Atrophy
- Hyperplasia
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Cystic, Minimal
- Mild
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Moderate
- Mild
- Moderate
- Mild
- Minimal
- Mild
- Mild
- Mild
- Moderate
- Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 420

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300435

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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hypercellularity	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Mild
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Mild
	Follicle	Cyst	
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Metaplasia	Squamous, Mild



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 421

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 739

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300436

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Endometrium

Hyperplasia

Cystic, Mild

Endometrium

Metaplasia

Squamous, Mild

---

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 422

TRT#: 8

SEX: Female

DAY ON TEST: 677

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* 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
- \* Pituitary Gland
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Thyroid Gland

OBSERVATIONS

- Blood Vessel Aorta Mineral Mild
- \* Bone Marrow Hypercellularity Marked
- \* Kidney Adenocarcinoma Metastatic (Uterus)
- Atrophy Mild
- Pelvis Dilation Moderate
- Nephropathy Chronicprogr, Mild
- [ Dilation TGLs = 7 - 8 ]
- \* Liver Adenocarcinoma Metastatic (Uterus)
- Pigment Minimal
- [ Adenocarcinoma TGLs = 3 - 20 ]
- \* Lung Adenocarcinoma Metastatic (Uterus)
- Infiltration Cellular Histiocyte, Mild
- [ Infiltration Cellular TGLs = 4 - 6+7 ]
- Lymph Node Renal Adenocarcinoma Metastatic (Uterus)
- Lumbar Adenocarcinoma Metastatic (Uterus)
- Pancreatic Adenocarcinoma Metastatic (Uterus)
- Note: Pancreatic node metastasis observed in B20.
- [ Adenocarcinoma TGLs = 6 - 22 ]
- [ Adenocarcinoma TGLs = 5 - 21 ]
- \* Mammary Gland Galactocele Mild
- Mesentery Adenocarcinoma Metastatic (Uterus)

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 422

TRT#: 8

SEX: Female

DAY ON TEST: 677

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300437

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Also observed in B22.

[ Adenocarcinoma TGLs = 1 - 18 ]

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Mild
* Pancreas		Adenocarcinoma	Metastatic (Uterus)
* Spleen		Adenocarcinoma	Metastatic (Uterus)
	White Pulp	Atrophy	Moderate
		Pigment	Moderate

[ Adenocarcinoma TGLs = 8 - 23 ]

* Thymus		Atrophy	Moderate
* Urinary Bladder		Adenocarcinoma	Metastatic (Uterus)
* Uterus	Cervix	Adenocarcinoma	

[ Adenocarcinoma TGLs = 2 - 16+19 ]

PRIMARY CAUSE OF DEATH - Uterus Cervix Adenocarcinoma

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 423

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- Hepatocyte
- \* Lung
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Mammary Gland
- \* Nose
- \* Ovary
- [ Cyst TGLs = 2 - 18 ]
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- Hyperplasia
- Hypercellularity
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Adenocarcinoma
- Hyperplasia
- Accumulation, Hyaline Droplet
- Cyst
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Mild
- Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Moderate
- Marked
- Mild
- Mild
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 424

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300439

**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
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Bone Marrow		Hypercellularity	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Minimal
	Hepatocyte	Eosinophilic Focus	
	[ Eosinophilic Focus TGLs = 1 - 18 ]	Hypertrophy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 2 - 19 ]	Hyperplasia	Marked
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Follicle	Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 425

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300440

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   |
| * Mammary Gland           | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |               |  |                               |                         |
|---------------|--|-------------------------------|-------------------------|
| * Bone Marrow |  | Hypercellularity              | Mild                    |
| * Liver       | Hepatocyte                               | Cytoplasmic Alteration        | Minimal                 |
|               | Bile Duct                                | Hyperplasia                   | Minimal                 |
|               | Hepatocyte                               | Hypertrophy                   | Minimal                 |
| * Lung        |  | Infiltration Cellular         | Histiocyte, Marked      |
|               |  | Inflammation                  | Chronic Active, Minimal |
|               | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                         |
| * Nose        | Olfactory Epi                            | Accumulation, Hyaline Droplet | Mild                    |
| * Ovary       | Bilateral                                | Atrophy                       | Mild                    |
| * Spleen      |  | Pigment                       | Minimal                 |
| * Thymus      |  | Atrophy                       | Mild                    |
| * Uterus      | Endometrium                              | Hyperplasia                   | Cystic, Mild            |
|               | Endometrium                              | Metaplasia                    | Squamous, Minimal       |
|               |  | Polyp Stromal                 | Multiple                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

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

**Date Report Requested:** 12/17/2019  
**Time Report Requested:** 10:43:08  
**First Dose M/F:** 02/17/11 / 02/18/11  
**Lab:** BAT

**ANIMAL ID:** 426

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300441

**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
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Moderate
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Mild
		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* 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	
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 427

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300442

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      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Parathyroid Gland        | * Pituitary Gland         | * Salivary Glands           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

OBSERVATIONS

- |                   |   |                               |                         |
|-------------------|---|-------------------------------|-------------------------|
| * Adrenal Cortex  |   | Angiectasis                   | Mild                    |
| * Adrenal Medulla |   | Hyperplasia                   | Mild                    |
| * Bone Marrow     |   | Hypercellularity              | Mild                    |
| * Kidney          |   | Nephropathy                   | Chronicprogr, Minimal   |
| * Liver           | Hepatocyte                              | Cytoplasmic Alteration        | Mild                    |
| * Lung            |   | Infiltration Cellular         | Histiocyte, Moderate    |
|                   |   | Inflammation                  | Chronic Active, Minimal |
|                   | [ Infiltration Cellular TGLs = 2 -6+7 ] |                               |                         |
| * Mammary Gland   |   | Fibroadenoma                  |                         |
|                   |   | Galactocele                   | Mild                    |
|                   |   | Hyperplasia                   | Mild                    |
|                   | [ Fibroadenoma TGLs = 1 - 18 ]          |                               |                         |
| * Nose            | Olfactory Epi                           | Accumulation, Hyaline Droplet | Moderate                |
|                   |   | Inflammation                  | Chronic Active, Minimal |
| * Ovary           | Bilateral                               | Atrophy                       | Mild                    |
| * Pancreas        | Acinus                                  | Adenoma                       |                         |
| * Spleen          |   | Extramedullary Hematopoiesis  | Mild                    |
|                   |   | Pigment                       | Mild                    |
| * Thymus          |   | Atrophy                       | Mild                    |
|                   |   | Hyperplasia                   | Lymphocyte, Moderate    |
| * Thyroid Gland   | C Cell                                  | Adenoma                       |                         |
| * Uterus          | Endometrium                             | Hyperplasia                   | Cystic, Minimal         |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 427

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 740

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300442

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Endometrium

Metaplasia

Squamous, Minimal

Polyp Stromal

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 428

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| 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     |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

OBSERVATIONS

- |                   |   |                               |                       |
|-------------------|---|-------------------------------|-----------------------|
| * Adrenal Cortex  |   | Degeneration                  | Cystic, Mild          |
| * Adrenal Medulla |   | Hyperplasia                   | Minimal               |
| * Bone Marrow     |   | Hypercellularity              | Minimal               |
| * Heart           |   | Cardiomyopathy                | Minimal               |
| * Kidney          |   | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           | Hepatocyte                                | Cytoplasmic Alteration        | Minimal               |
|                   |   | Pigment                       | Minimal               |
| * Lung            |   | Infiltration Cellular         | Histiocyte, Moderate  |
|                   | [ Infiltration Cellular TGLs = 1 -- 6+7 ] |                               |                       |
| * Nose            | Olfactory Epi                             | Accumulation, Hyaline Droplet | Mild                  |
| * Ovary           | Bilateral                                 | Atrophy                       | Mild                  |
|                   | Paraovarian                               | Cyst                          |                       |
|                   | [ Cyst TGLs = 2 - 18 ]                    |                               |                       |
| * Spleen          |   | Extramedullary Hematopoiesis  | Mild                  |
|                   |   | Pigment                       | Mild                  |
| * Thymus          |   | Atrophy                       | Mild                  |
| * Uterus          | Endometrium                               | Metaplasia                    | Squamous, Moderate    |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 429

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Intestine Large, Rectum
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- Renal Tubule
- Hepatocyte
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- Olfactory Epi
- C Cell
- Degeneration
- Parasite Metazoan
- Accumulation, Hyaline Droplet
- Nephropathy
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Cystic, Minimal
- Minimal
- Chronicprogr, Minimal
- Minimal
- Minimal
- Histiocyte, Mild
- Moderate
- Mild
- Mild
- Moderate





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 431

TRT#: 8

SEX: Female

DAY ON TEST: 522

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Stomach, Glandular
- \* 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

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
  - \* Bone Marrow
  - \* Liver
  - \* Lung
    - [ Infiltration Cellular TGLs = 2 - 6+7 ]
  - \* Nose
  - \* Ovary
  - \* Spleen
  - \* Thymus
  - \* Uterus
    - Endometrium
- Degeneration
  - Hypercellularity
  - Extramedullary Hematopoiesis
  - Pigment
  - Infiltration Cellular
  - Accumulation, Hyaline Droplet
  - Atrophy
  - Extramedullary Hematopoiesis
  - Atrophy
  - Dilation
  - Hemorrhage
  - Inflammation
  - Metaplasia
- Cystic, Minimal
  - Moderate
  - Minimal
  - Minimal
  - Histiocyte, Mild
  - Mild
  - Mild
  - Moderate
  - Mild
  - Marked
  - Marked
  - Chronic Active, Mild
  - Squamous, Minimal

[ Dilation TGLs = 1 - 16+17 ]

PRIMARY CAUSE OF DEATH - Uterus Hemorrhage

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 432

TRT#: 8

SEX: Female

DAY ON TEST: 739

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Medulla
  - Hyperplasia
  - Pheochromocytoma Benign
  - Minimal
- [ Pheochromocytoma Benign TGLs = 1 - 11 ]
- \* Bone Marrow
  - Hypercellularity
  - Mild
- \* Intestine Large, Rectum
  - Parasite Metazoan
- \* Kidney
  - Nephropathy
  - Chronicprogr, Minimal
- \* Liver
  - Hepatocyte
  - Cytoplasmic Alteration
  - Pigment
  - Minimal
  - Infiltration Cellular
  - Histiocyte, Mild
- \* Lung
  - Hyperplasia
  - Moderate
- \* Mammary Gland
  - Accumulation, Hyaline Droplet
  - Minimal
- \* Nose
  - Olfactory Epi
- \* Ovary
  - Bilateral
  - Atrophy
  - Mild
- \* Pituitary Gland
  - Pars Distalis
  - Hyperplasia
  - Moderate
- \* Spleen
  - Extramedullary Hematopoiesis
  - Mild
  - Pigment
  - Minimal
- \* Thymus
  - Atrophy
  - Mild
- \* Uterus
  - Endometrium
  - Hyperplasia
  - Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 433

TRT#: 8

SEX: Female

DAY ON TEST: 727

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Rectum
- \* Mammary Gland
- \* Stomach, Glandular
- Blood Vessel
- \* Esophagus
- \* Intestine Small, Ileum
- \* Nose
- \* Bone
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Pituitary Gland
- \* Brain
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Skin

MISSING

- \* Eye
- \* Parathyroid Gland
- \* Trachea
- \* Harderian Gland
- \* Salivary Glands
- \* Heart
- \* Thymus
- \* Lymph Node, Mandibular
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Intestine Small, Duodenum
- \* Kidney
- \* Liver
- \* Lung
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Pancreas
- \* Peritoneum
- \* Spleen
- \* Stomach, Forestomach
- Capsule
- Serosa
- Hepatocyte
- White Pulp
- Epithelium
- Adenocarcinoma
- Hypercellularity
- Adenocarcinoma
- Hydronephrosis
- Cytoplasmic Alteration
- Pigment
- Adenocarcinoma
- Infiltration Cellular
- Adenocarcinoma
- Adenocarcinoma
- Adenocarcinoma
- Adenocarcinoma
- Adenocarcinoma
- Adenocarcinoma
- Adenocarcinoma
- Atrophy
- Pigment
- Hyperplasia
- Metastatic (Uterus)
- Moderate
- Metastatic (Uterus)
- Marked
- Minimal
- Moderate
- Metastatic (Uterus)
- Histiocyte, Mild
- Metastatic (Uterus)
- Metastatic (Uterus)
- Metastatic (Uterus)
- Metastatic (Uterus)
- Metastatic (Uterus)
- Metastatic (Uterus)
- Metastatic (Uterus)
- Marked
- Moderate
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 433

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 727

**DOSE:** 3000 ppm Female

**DISP:** Natural Death

**HISTO:** 1300448

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Adenocarcinoma

Metastatic (Uterus)

\* Uterus

Cervix

Adenocarcinoma

[ Adenocarcinoma TGLs = 2 - 19 ]

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PRIMARY CAUSE OF DEATH

- Uterus Cervix Adenocarcinoma

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 434

TRT#: 8

SEX: Female

DAY ON TEST: 740

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Pancreas
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular
- \* 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
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- [ Adenoma TGLs = 2 - 11 ]
- \* Spleen
- \* Thymus
- \* Uterus
- Hepatocyte
- Hepatocyte
- Olfactory Epi
- Bilateral
- Pars Distalis
- Endometrium
- Endometrium
- Endometrium
- Degeneration
- Hypercellularity
- Cytoplasmic Alteration
- Hypertrophy
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Adenoma
- Pigment
- Atrophy
- Atypical Hyperplasia
- Hyperplasia
- Metaplasia
- Cystic, Minimal
- Moderate
- Minimal
- Minimal
- Mild
- Histiocyte, Moderate
- Mild
- Mild
- Minimal
- Mild
- Minimal
- Cystic, Mild
- Squamous, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 651

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Stomach, Glandular
- Blood Vessel
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Trachea
- \* Bone
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Brain
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Nose
- \* Skin

MISSING

- \* Clitoral Gland
- \* Intestine Large, Cecum

OBSERVATIONS

- \* Adrenal Medulla
  - \* Bone Marrow
  - \* Heart
  - \* Kidney
  - \* Liver
  - \* Lung
    - [ Infiltration Cellular TGLs = 1 - 6+7 ]
  - \* Mammary Gland
  - \* Ovary
  - \* Pituitary Gland
  - \* Spleen
  - \* Stomach, Forestomach
    - [ Hyperplasia TGLs = 3 - 18 ]
  - \* Thymus
  - \* Thyroid Gland
    - [ Cyst TGLs = 2- 12 ]
  - \* Urinary Bladder
  - \* Uterus
- |  |                              |                        |
|--|------------------------------|------------------------|
|  | Hyperplasia                  | Minimal                |
|  | Hypercellularity             | Marked                 |
|  | Cardiomyopathy               | Minimal                |
|  | Nephropathy                  | Chronicprogr, Mild     |
|  | Necrosis                     | Moderate               |
|  | Pigment                      | Minimal                |
|  | Infiltration Cellular        | Histiocyte, Moderate   |
|  | Inflammation                 | Granulomatous, Minimal |
|  | Hyperplasia                  | Mild                   |
|  | Atrophy                      | Mild                   |
|  | Adenoma                      |                        |
|  | Extramedullary Hematopoiesis | Moderate               |
|  | Hyperplasia                  | Moderate               |
|  | Atrophy                      | Moderate               |
|  | Cyst                         |                        |
|  | Sarcoma Stromal              | Metastatic (Uterus)    |
|  | Hyperplasia                  | Cystic, Minimal        |
|  | Sarcoma Stromal              |                        |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 435

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 651

**DOSE:** 3000 ppm Female

**DISP:** Natural Death

**HISTO:** 1300450

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: Malignant Schwannoma likely.

---

PRIMARY CAUSE OF DEATH      - Liver    Necrosis

CONTRIBUTORY CAUSE OF DEATH    - Uterus    Cervix    Sarcoma Stromal

---

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 600

DOSE: 3000 ppm Female

DISP: Natural Death

HISTO: 1300451

**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                    |                          |                            |

**OBSERVATIONS**

- |                 |                                |                               |                       |
|-----------------|--------------------------------|-------------------------------|-----------------------|
| * Bone Marrow   |                                | Hypercellularity              | Marked                |
| * Kidney        |                                | Nephropathy                   | Chronicprogr, Minimal |
| * Liver         | Hepatocyte                     | Cytoplasmic Alteration        | Minimal               |
|                 |                                | Pigment                       | Minimal               |
| * Lung          |                                | Infiltration Cellular         | Histiocyte, Moderate  |
| * Mammary Gland |                                | Fibroadenoma                  |                       |
|                 | [ Fibroadenoma TGLs = 1 - 18 ] |                               |                       |
| * Nose          | Olfactory Epi                  | Accumulation, Hyaline Droplet | Moderate              |
| * Ovary         | Bilateral                      | Atrophy                       | Mild                  |
| * Spleen        |                                | Extramedullary Hematopoiesis  | Moderate              |
|                 |                                | Pigment                       | Minimal               |
| * Thymus        |                                | Atrophy                       | Minimal               |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 523

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300452

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       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

MISSING

- \* Thymus

OBSERVATIONS

- |                 |   |                               |                  |
|-----------------|---|-------------------------------|------------------|
| * Bone Marrow   |   | Hypercellularity              | Marked           |
| * Liver         | Hepatocyte                                    | Cytoplasmic Alteration        | Minimal          |
|                 | Hepatocyte                                    | Extramedullary Hematopoiesis  | Minimal          |
| * Lung          |   | Hypertrophy                   | Minimal          |
|                 | [ Infiltration Cellular TGLs = 4 - 6+7 ]      | Infiltration Cellular         | Histiocyte, Mild |
| * Mammary Gland |   | Fibroadenoma                  |                  |
|                 | [ Fibroadenoma TGLs = 1 - 18 ]                | Hyperplasia                   | Moderate         |
| * Nose          | Olfactory Epi                                 | Accumulation, Hyaline Droplet | Mild             |
| * Spleen        |   | Extramedullary Hematopoiesis  | Marked           |
|                 | [ Extramedullary Hematopoiesis TGLs = 2 - 8 ] |                               |                  |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 438

TRT#: 8

SEX: Female

DAY ON TEST: 708

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300453

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, Mesenteric	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Marked
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
	Hepatocyte	Extramedullary Hematopoiesis	Minimal
		Hypertrophy	Minimal
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
	Lymph Node		
	[ Pigment TGLs = 4 - 20 ]	Pigment	Mild
* Mammary Gland		Fibroadenoma	Multiple
	[ Fibroadenoma TGLs = 1,2 - 18+19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
* Ovary	Bilateral	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 410

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300454

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      |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 |

MISSING

- \* Ovary

OBSERVATIONS

- |                   |               |                               |                         |
|-------------------|---------------|-------------------------------|-------------------------|
| * Bone Marrow     |               | Hypercellularity              | Marked                  |
| * Eye             | Choroid       | Inflammation                  | Chronic Active, Minimal |
| * Kidney          |               | Nephropathy                   | Chronicprogr, Minimal   |
| * Lung            |               | Infiltration Cellular         | Histiocyte, Mild        |
| * Nose            | Olfactory Epi | Accumulation, Hyaline Droplet | Mild                    |
| * Pancreas        |               | Histiocytic Sarcoma           | Metastatic (Uterus)     |
| * Spleen          |               | Extramedullary Hematopoiesis  | Moderate                |
|                   |               | Pigment                       | Minimal                 |
| * Thymus          |               | Atrophy                       | Marked                  |
| * Urinary Bladder |               | Histiocytic Sarcoma           | Metastatic (Uterus)     |
| * Uterus          |               | Histiocytic Sarcoma           |                         |

[ Histiocytic Sarcoma TGLs = 1 - 16+17+18+19 ]

PRIMARY CAUSE OF DEATH

- Uterus Histiocytic Sarcoma

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 440

TRT#: 8

SEX: Female

DAY ON TEST: 741

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pancreas
- \* Skin
- \* Trachea
- \* Bone
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Stomach, Glandular
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Mammary Gland
- \* Salivary Glands
- \* Thyroid Gland

OBSERVATIONS

- \* Adrenal Cortex  
Blood Vessel
- \* Bone Marrow
- \* Eye
- \* Harderian Gland  
[ Atrophy TGLs = 4 - 19 ]
- \* Kidney
- \* Liver
- \* Lung  
[ Infiltration Cellular TGLs = 5 - 6+7 ]
- \* Nose  
[ Squamous Cell Carcinoma TGLs = 3 - 1+2+21 ]
- \* Ovary  
[ Cyst TGLs = 6 - 20 ]
- \* Spleen
- Adventitia, Aorta
- Cornea
- Hepatocyte  
Bile Duct
- Bilateral
- Hypertrophy
- Inflammation
- Hypercellularity
- Inflammation
- Atrophy
- Nephropathy
- Cytoplasmic Alteration
- Hyperplasia
- Inflammation
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Squamous Cell Carcinoma
- Atrophy
- Cyst
- Extramedullary Hematopoiesis
- Pigment
- Mild
- Chronic, Mild
- Moderate
- Chronic Active, Mild
- Moderate
- Chronicprogr, Minimal
- Minimal
- Minimal
- Chronic Active, Minimal
- Mild
- Histiocyte, Marked
- Chronic Active, Mild
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 440

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 741

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300455

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Mild

\* Uterus

Endometrium

Adenocarcinoma

Endometrium

Hyperplasia

Cystic, Mild

Endometrium

Metaplasia

Squamous, Mild

[ Adenocarcinoma TGLs = 1 - 18 ]

[ Hyperplasia TGLs = 2 - 18 ]

---

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 441

TRT#: 8

SEX: Female

DAY ON TEST: 641

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300456

**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, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Bone	Cartilage, Joint	Degeneration	Minimal
* Bone Marrow		Hypercellularity	Marked
* Intestine Large, Colon		Parasite Metazoan	
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[ Fibroadenoma TGLs = 1 - 18 ]			
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Moderate
* Uterus		Polyp Stromal	
[ Polyp Stromal TGLs = 2 - 19 ]			

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 443

TRT#: 8

SEX: Female

DAY ON TEST: 741

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone
- \* Bone Marrow
- \* Brain
  - Note: Hydrocephalus secondary to pituitary tumor.
  - [ Hydrocephalus TGLs = 3 - 3 ]
- \* Heart
- \* Kidney
- \* Liver
  - Hepatocyte
  - Bile Duct
- \* Lung
  - [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
  - [ Adenoma TGLs = 2 - 11 ]
- \* Spleen
- \* Thymus
- \* Uterus
- Hyperplasia
- Osteopetrosis
- Hypercellularity
- Hydrocephalus
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Cytoplasmic Alteration
- Hyperplasia
- Pigment
- Infiltration Cellular
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Atrophy
- Atypical Hyperplasia
- Minimal
- Minimal
- Moderate
- Mild
- Minimal
- Chronicprogr, Minimal
- Mild
- Minimal
- Mild
- Histiocyte, Mild
- Mild
- Mild
- Minimal
- Mild
- Mild
- Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 443

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 741

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300458

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Endometrium

Hyperplasia

Cystic, Mild

Endometrium

Metaplasia

Squamous, Minimal

Polyp Stromal

Cervix

Squamous Cell Carcinoma

---



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 445

TRT#: 8

SEX: Female

DAY ON TEST: 741

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Mild
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Atypical Hyperplasia	Minimal
	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Metaplasia	Squamous, Mild
		Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 446

TRT#: 8

SEX: Female

DAY ON TEST: 643

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| 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                 | * Pituitary Gland         | * Salivary Glands           | * Skin                   |
| * Stomach, Forestomach     | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                      |  |                               |                         |
|----------------------|--|-------------------------------|-------------------------|
| * Adrenal Cortex     |  | Thrombus                      | Minimal                 |
| * Adrenal Medulla    |  | Hyperplasia                   | Minimal                 |
| * Bone Marrow        |  | Hypercellularity              | Marked                  |
| * Heart              |  | Cardiomyopathy                | Minimal                 |
| * Kidney             |  | Nephropathy                   | Chronicprogr, Mild      |
| * Liver              | Hepatocyte                               | Cytoplasmic Alteration        | Minimal                 |
|                      | Bile Duct                                | Hyperplasia                   | Minimal                 |
|                      |  | Necrosis                      | Mild                    |
|                      |  | Pigment                       | Minimal                 |
| * Lung               |  | Infiltration Cellular         | Histiocyte, Mild        |
|                      | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                         |
| * Mammary Gland      |  | Hyperplasia                   | Minimal                 |
| * Nose               | Olfactory Epi                            | Accumulation, Hyaline Droplet | Marked                  |
| * Ovary              | Bilateral                                | Atrophy                       | Mild                    |
| * Spleen             | White Pulp                               | Atrophy                       | Moderate                |
|                      |  | Extramedullary Hematopoiesis  | Mild                    |
| * Stomach, Glandular |  | Mineral                       | Mild                    |
| * Thymus             |  | Atrophy                       | Marked                  |
| * Uterus             | Endometrium                              | Hyperplasia                   | Cystic, Minimal         |
|                      |  | Inflammation                  | Chronic Active, Minimal |
|                      |  | Polyp Stromal                 |                         |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

---

**ANIMAL ID:** 446

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 643

**DOSE:** 3000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300461

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

- UNCERTAIN

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 448

TRT#: 8

SEX: Female

DAY ON TEST: 741

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| 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   | * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        |
| * Salivary Glands          | * Skin                    | * Stomach, Glandular        | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

OBSERVATIONS

- |  |               |                               |                        |
|--|---------------|-------------------------------|------------------------|
| * Adrenal Cortex                         |               | Degeneration                  | Cystic, Minimal        |
| * Adrenal Medulla                        |               | Hyperplasia                   | Mild                   |
| * Bone Marrow                            |               | Hypercellularity              | Mild                   |
| * Heart                                  |               | Cardiomyopathy                | Minimal                |
| * Liver                                  |               | Angiectasis                   | Moderate               |
|  |               | Inflammation                  | Chronic Active, Mild   |
|  |               | Pigment                       | Minimal                |
| [ Angiectasis TGLs = 5 - 19 ]            |               |                               |                        |
| * Lung                                   |               | Infiltration Cellular         | Histiocyte, Mild       |
|  |               | Inflammation                  | Granulomatous, Minimal |
| [ Infiltration Cellular TGLs = 4 - 6+7 ] |               |                               |                        |
| * Mammary Gland                          |               | Fibroadenoma                  |                        |
|  |               | Hyperplasia                   | Mild                   |
| [ Fibroadenoma TGLs = 1 - 18 ]           |               |                               |                        |
| * Nose                                   | Olfactory Epi | Accumulation, Hyaline Droplet | Mild                   |
| * Ovary                                  | Bursa         | Cyst                          |                        |
|  | Follicle      | Cyst                          |                        |
| [ Cyst TGLs = 2- 15 ]                    |               |                               |                        |
| [ Cyst TGLs = 3 - 15 ]                   |               |                               |                        |
| * Spleen                                 |               | Extramedullary Hematopoiesis  | Minimal                |
|  |               | Pigment                       | Moderate               |
| * Stomach, Forestomach                   | Epithelium    | Hyperplasia                   | Mild                   |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 448

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 741

**DOSE:** 3000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300463

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

\* Uterus

Inflammation

Atrophy

Polyp Stromal

Chronic Active, Minimal

Moderate

---



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 449

TRT#: 8

SEX: Female

DAY ON TEST: 741

DOSE: 3000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300464

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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
* Mammary Gland		Hyperplasia	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
		Foreign Body	
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 450

TRT#: 8

SEX: Female

DAY ON TEST: 523

DOSE: 3000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300465

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     |
| * Kidney                    | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Pancreas               |
| * Pituitary Gland           | * Salivary Glands        | * Skin                     | * Stomach, Forestomach   |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder        |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                           |                                     |                               |                  |
|---------------------------|-------------------------------------|-------------------------------|------------------|
| * Bone Marrow             |                                     | Hypercellularity              | Marked           |
| * Intestine Large, Rectum |                                     | Parasite Metazoan             |                  |
| * Liver                   | Hepatocyte                          | Cytoplasmic Alteration        | Moderate         |
|                           | Hepatocyte                          | Hypertrophy                   | Minimal          |
| * Lung                    |                                     | Infiltration Cellular         | Histiocyte, Mild |
| * Mammary Gland           |                                     | Fibroadenoma                  | Multiple         |
|                           | [ Fibroadenoma TGLs = 1,2 - 18+19 ] |                               |                  |
| * Nose                    | Olfactory Epi                       | Accumulation, Hyaline Droplet | Minimal          |
| * Ovary                   | Bilateral                           | Atrophy                       | Mild             |
| * Spleen                  |                                     | Extramedullary Hematopoiesis  | Moderate         |
| * Thymus                  |                                     | Atrophy                       | Mild             |
| * Uterus                  | Endometrium                         | Hyperplasia                   | Cystic, Minimal  |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

**ANIMAL ID:** 451

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10000 ppm Female

**DISP:** Natural Death

**HISTO:** 1300466

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Eye	* 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	* Skin
* Stomach, Forestomach	* Stomach, Glandular		

**MISSING**

Blood Vessel	* Esophagus	* Harderian Gland	* Heart
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Thymus	* Thyroid Gland	* Trachea	

**OBSERVATIONS**

* Bone Marrow		Hypercellularity	Marked
* Kidney	Pelvis	Dilation	Minimal
		Nephropathy	Chronicprogr, Minimal
Lymph Node	Lumbar	Adenocarcinoma	Metastatic (Uterus)
	Renal	Adenocarcinoma	Metastatic (Uterus)
	[ Adenocarcinoma TGLs = 3- 20 ]		
	[ Adenocarcinoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Ovary	Bilateral	Atrophy	Mild
* Urinary Bladder		Adenocarcinoma	Metastatic (Uterus)
* Uterus	Endometrium	Adenocarcinoma	
	[ Adenocarcinoma TGLs = 2 - 19 ]		

**PRIMARY CAUSE OF DEATH** - Uterus Endometrium Adenocarcinoma

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 452

TRT#: 10

SEX: Female

DAY ON TEST: 740

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- \* Lymph Node, Mandibular
- \* Nose
- \* Ovary
- \* Pancreas
- [ Adenoma TGLs = 2 - 19 ]
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- [ Adenocarcinoma TGLs = 1 - 18 ]
- Hepatocyte
- Olfactory Epi
- Follicle
- Acinus
- C Cell
- Endometrium
- Degeneration
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Inflammation
- Atrophy
- Accumulation, Hyaline Droplet
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenoma
- Adenocarcinoma
- Cystic, Mild
- Moderate
- Chronicprogr, Minimal
- Marked
- Moderate
- Histiocyte, Moderate
- Chronic Active, Minimal
- Mild
- Minimal
- Mild
- Mild
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 453

TRT#: 10

SEX: Female

DAY ON TEST: 485

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1300468

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
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
  - \* Kidney
  - \* Liver
  - \* Lung
  - \* Mammary Gland
  - \* Ovary
  - \* Spleen
  - \* Thymus
  - \* Thyroid Gland
  - \* Uterus
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- [ Fibroadenoma TGLs = 1 - 18 ]
- Pelvis
- Hepatocyte
- Bilateral
- Follicular Cel
- Hypercellularity
- Inflammation
- Nephropathy
- Cytoplasmic Alteration
- Extramedullary Hematopoiesis
- Pigment
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Atrophy
- Extramedullary Hematopoiesis
- Atrophy
- Adenoma
- Inflammation
- Marked
- Suppurative, Minimal
- Chronicprogr, Minimal
- Mild
- Minimal
- Mild
- Histiocyte, Mild
- Chronic Active, Minimal
- Mild
- Moderate
- Mild
- Chronic Active, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 454

TRT#: 10

SEX: Female

DAY ON TEST: 740

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300469

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
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow: Hypercellularity, Moderate
- \* Kidney: Nephropathy, Chronicprogr, Minimal
- \* Liver: Hepatocyte, Cytoplasmic Alteration, Eosinophilic Focus, Hepatocellular Adenoma, Hypertrophy, Pigment, Marked, Minimal, Mild
- [ Hepatocellular Adenoma TGLs = 1 - 18 ]
- \* Lung: Infiltration Cellular, Inflammation, Histiocyte, Moderate
- \* Nose: Olfactory Epi, Accumulation, Hyaline Droplet, Chronic Active, Minimal
- \* Ovary: Bilateral, Atrophy, Mild
- Follicle: Cyst, Mild
- \* Thymus: Atrophy, Mild
- \* Thyroid Gland: C Cell, Adenoma
- [ Adenoma TGLs = 4 - 11 ]
- \* Uterus: Endometrium, Atypical Hyperplasia, Mild
- Endometrium: Hyperplasia, Cystic, Marked
- Cervix: Hyperplasia, Squamous, Mild
- [ Hyperplasia TGLs = 2 - 16+17 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 455

TRT#: 10

SEX: Female

DAY ON TEST: 489

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Esophagus
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- Blood Vessel
- \* Harderian Gland
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- Peripheral Nerve
- \* Stomach, Glandular
- \* Bone
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Mammary Gland
- \* Pituitary Gland
- \* Thyroid Gland
- \* Clitoral Gland
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Pancreas
- \* Salivary Glands
- \* Trachea

OBSERVATIONS

- \* Adrenal Cortex
  - Hemorrhage
  - Leukemia Mononuclear
  - Necrosis
- \* Bone Marrow
  - Hypercellularity
- \* Brain
  - Hemorrhage
  - Leukemia Mononuclear
- [ Hemorrhage TGLs = 3 - 18 ]
- \* Eye
  - Leukemia Mononuclear
- \* Heart
  - Leukemia Mononuclear
- \* Kidney
  - Leukemia Mononuclear
  - Nephropathy
- \* Liver
  - Hepatocyte
  - Hypertrophy
  - Leukemia Mononuclear
- \* Lung
  - Pigment
  - Infiltration Cellular
  - Leukemia Mononuclear
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Lymph Node, Mesenteric
  - Leukemia Mononuclear
- \* Nose
  - Olfactory Epi
- \* Ovary
  - Bilateral
  - Follicle
- \* Skin
  - Cyst
  - Leukemia Mononuclear

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 455

TRT#: 10

SEX: Female

DAY ON TEST: 489

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300470

ORGAN AND ACCOUNTABLE SITE STATUS

Spinal Cord

Hemorrhage

Moderate

Leukemia Mononuclear

\* Spleen

Extramedullary Hematopoiesis

Mild

Leukemia Mononuclear

[ Leukemia Mononuclear TGLs = 1 - 8 ]

\* Thymus

Leukemia Mononuclear

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Brain Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Brain Hemorrhage



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 456

TRT#: 10

SEX: Female

DAY ON TEST: 585

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1300471

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 | * Nose                     |
| * Ovary                   | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

OBSERVATIONS

- |                 |  |                              |                       |
|-----------------|--|------------------------------|-----------------------|
| * Bone Marrow   |  | Hypercellularity             | Marked                |
| * Kidney        |  | Nephropathy                  | Chronicprogr, Minimal |
| * Liver         | Hepatocyte                               | Cytoplasmic Alteration       | Mild                  |
|                 |  | Pigment                      | Mild                  |
| * Lung          |  | Infiltration Cellular        | Histiocyte, Mild      |
|                 | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                              |                       |
| * Mammary Gland |  | Fibroadenoma                 |                       |
|                 | [ Fibroadenoma TGLs = 1 - 18 ]           |                              |                       |
| * Spleen        |  | Extramedullary Hematopoiesis | Moderate              |
| * Thymus        |  | Atrophy                      | Moderate              |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 457

TRT#: 10

SEX: Female

DAY ON TEST: 741

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300472

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
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
- \* Liver
  - Hepatocyte
    - Hypercellularity
    - Cytoplasmic Alteration
    - Eosinophilic Focus
    - Hepatocellular Adenoma
    - Hypertrophy
    - Pigment
  - Hepatocyte
    - [ Hepatocellular Adenoma TGLs = 3 - 19 ]
- \* Lung
  - [ Infiltration Cellular TGLs = 4 - 6+7 ]
- \* Mammary Gland
  - [ Fibroadenoma TGLs = 1 - 18 ]
- \* Ovary
  - Bilateral
    - Bursa
  - [ Cyst TGLs = 2 - 15 ]
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus

- Mild
- Moderate
- Mild
- Moderate
- Infiltration Cellular
- Inflammation
- Fibroadenoma
- Hyperplasia
- Minimal
- Atrophy
- Cyst
- Extramedullary Hematopoiesis
- Pigment
- Minimal
- Atrophy
- Mild
- Hyperplasia
- Marked
- Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

**ANIMAL ID:** 457

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 741

**DOSE:** 10000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300472

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Endometrium

Hyperplasia

Cystic, Mild

---





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 459

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300474

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Chronic Active, Mild

Ulcer

Moderate

[ Hyperplasia TGLs = 7 - 9 ]

Atrophy

Marked

\* Thymus

Adenocarcinoma

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Endometrium

Metaplasia

Squamous, Marked

Endometrium

Polyp Stromal

[ Metaplasia TGLs = 5 - 20 ]

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 460

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300475

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	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
	[ Pheochromocytoma Benign TGLs = 2 - 11 ]		
* Bone Marrow		Hypercellularity	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Liver	Hepatocyte	Cytoplasmic Alteration	Marked
	Hepatocyte	Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 1 - 18 ]	Hypertrophy	Minimal
		Pigment	Moderate
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 3 - 6+7 ]	Inflammation	Granulomatous, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Minimal
		Pigment	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 461

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Stomach, Glandular
- 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
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Uterus
- [ Hyperplasia TGLs = 1 - 16+17+18 ]
- Degeneration
- Congestion
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Hyperplasia
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Cystic, Minimal
- Mild
- Moderate
- Chronicprogr, Minimal
- Marked
- Moderate
- Histiocyte, Moderate
- Granulomatous, Minimal
- Minimal
- Mild
- Minimal
- Mild
- Mild
- Mild
- Marked
- Cystic, Marked

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 463

TRT#: 10

SEX: Female

DAY ON TEST: 716

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1300478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone
- \* Brain
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Heart
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Nose
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

MISSING

- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Small, Duodenum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Lymph Node, Mesenteric
- \* Ovary
- \* Pancreas
- \* Spleen

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Mild
- \* Kidney
- Renal Tubule
- Carcinoma
- Dilation
- Mild
- \* Liver
- Pelvis
- Carcinoma
- Metastatic (Kidney)
- Hepatocyte
- Cytoplasmic Alteration
- Marked
- Hepatocyte
- Hypertrophy
- Minimal
- Pigment
- Moderate
- [ Carcinoma TGLs = 2 - 18 ]
- \* Lung
- Carcinoma
- Metastatic (Kidney)
- Infiltration Cellular
- Histiocyte, Moderate
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Stomach, Forestomach
- Epithelium
- Hyperplasia
- Mild
- Inflammation
- Acute, Minimal
- Ulcer
- Moderate
- \* Thymus
- Atrophy
- Marked
- \* Uterus
- Polyp Stromal

PRIMARY CAUSE OF DEATH - Kidney Renal Tubule Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 464

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300479

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
- \* Thymus
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow      Hypercellularity      Mild
- \* Kidney      Nephropathy      Chronicprogr, Minimal
- \* Liver      Clear Cell Focus
- Hepatocyte      Cytoplasmic Alteration      Marked
- Hepatocyte      Hepatocellular Adenoma
- Hepatocyte      Hypertrophy      Minimal
- [ Hepatocellular Adenoma      TGLs = 1 - 18 ]      Pigment      Moderate
- \* Lung      Infiltration Cellular      Histiocyte, Minimal
- Inflammation      Chronic Active, Minimal
- \* Mammary Gland      Hyperplasia      Minimal
- \* Nose      Olfactory Epi      Accumulation, Hyaline Droplet      Minimal
- \* Ovary      Cyst
- \* Spleen      Extramedullary Hematopoiesis      Minimal
- Pigment      Mild
- \* Uterus      Endometrium      Hyperplasia      Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 465

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
  - \* Bone Marrow
  - \* Liver
  - \* Lung
  - \* Nose
  - \* Ovary
  - \* Spleen
  - \* Thymus
  - \* Uterus
  - Hepatocyte
  - Olfactory Epi
  - Bilateral
  - Endometrium
  - Endometrium
  - Degeneration
  - Hypercellularity
  - Cytoplasmic Alteration
  - Pigment
  - Infiltration Cellular
  - Accumulation, Hyaline Droplet
  - Atrophy
  - Extramedullary Hematopoiesis
  - Pigment
  - Atrophy
  - Adenocarcinoma
  - Hyperplasia
  - Polyp Stromal
  - Cystic, Minimal
  - Minimal
  - Marked
  - Moderate
  - Histiocyte, Moderate
  - Minimal
  - Mild
  - Mild
  - Mild
  - Mild
  - Cystic, Moderate
- [ Infiltration Cellular TGLs = 3 - 6+7 ]
- [ Adenocarcinoma TGLs = 1 - 17 ]
- [ Polyp Stromal TGLs = 2 - 17 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 466

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300481

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 | * Mammary Gland            | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Salivary Glands          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

OBSERVATIONS

- |                          |  |                               |                       |
|--------------------------|--|-------------------------------|-----------------------|
| * Bone Marrow            |  | Hypercellularity              | Moderate              |
| * Heart                  |  | Schwannoma Malignant          |                       |
| * Intestine Large, Colon |  | Hyperplasia                   | Lymphocyte, Mild      |
| * Kidney                 |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver                  | Hepatocyte                               | Cytoplasmic Alteration        | Marked                |
|                          | Hepatocyte                               | Hypertrophy                   | Minimal               |
|                          |  | Pigment                       | Moderate              |
| * Lung                   |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                          | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Nose                   | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal               |
| * Ovary                  | Bilateral                                | Atrophy                       | Mild                  |
| * Spleen                 |  | Extramedullary Hematopoiesis  | Minimal               |
|                          |  | Pigment                       | Mild                  |
| * Thymus                 |  | Atrophy                       | Mild                  |
| * Uterus                 | Endometrium                              | Atypical Hyperplasia          | Minimal               |
|                          | Endometrium                              | Hyperplasia                   | Cystic, Marked        |
|                          |  | Inflammation                  | Chronic Active, Mild  |
|                          | [ Hyperplasia TGLs = 1 - 16+17+19 ]      |                               |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 467

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Medulla
- \* Bone Marrow
- \* Heart
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Stomach, Forestomach
- \* Thymus
- \* Uterus
- Renal Tubule
- Hepatocyte
- Hepatocyte
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- Olfactory Epi
- Bilateral
- Pars Distalis
- Endometrium
- Pheochromocytoma Benign
- Hypercellularity
- Cardiomyopathy
- Parasite Metazoan
- Adenoma
- Hypertrophy
- Nephropathy
- Clear Cell Focus
- Cytoplasmic Alteration
- Hypertrophy
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Atrophy
- Cyst
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Inflammation
- Atrophy
- Metaplasia
- Moderate
- Minimal
- Moderate
- Chronicprogr, Minimal
- Marked
- Minimal
- Mild
- Histiocyte, Moderate
- Chronic Active, Minimal
- Minimal
- Mild
- Marked
- Mild
- Mild
- Chronic, Minimal
- Mild
- Squamous, Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 468

TRT#: 10

SEX: Female

DAY ON TEST: 652

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300483

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	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hypercellularity	Marked
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Moderate
		Extramedullary Hematopoiesis	Minimal
		Hepatocellular Adenoma	Multiple
	Hepatocyte	Hypertrophy	Minimal
		Pigment	Moderate
	[ Hepatocellular Adenoma TGLs = 4, 5 - 20+21 ]		
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
	[ Infiltration Cellular TGLs = 1 - 6+7 ]		
	Lymph Node Lumbar	Infiltration Cellular	Plasma Cell, Moderate
	[ Infiltration Cellular TGLs = 2 - 19 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Ovary	Bilateral	Atrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Mild
* Uterus		Polyp Stromal	Multiple
		Sarcoma Stromal	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 10188 - 01

**Test Type:** CHRONIC

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

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

**Date Report Requested:** 12/17/2019

**Time Report Requested:** 10:43:08

**First Dose M/F:** 02/17/11 / 02/18/11

**Lab:** BAT

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**ANIMAL ID:** 468

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 652

**DOSE:** 10000 ppm Female

**DISP:** Moribund Sacrifice

**HISTO:** 1300483

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: One polyp appears to involve the cervix.

[ Sarcoma Stromal TGLs = 3 - 18 ]

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**PRIMARY CAUSE OF DEATH**

- Uterus Sarcoma Stromal

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Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

---

ANIMAL ID: 469

TRT#: 10

SEX: Female

DAY ON TEST: 613

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1300484

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Squamous Cell Carcinoma TGLs = 1 - 16+18 ]

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PRIMARY CAUSE OF DEATH

- Uterus Cervix Squamous Cell Carcinoma

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Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 470

TRT#: 10

SEX: Female

DAY ON TEST: 739

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300485

**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         |                             |                          |                            |

**OBSERVATIONS**

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Bone Marrow     |  | Hypercellularity              | Mild                  |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           | Hepatocyte                               | Cytoplasmic Alteration        | Marked                |
|                   | Hepatocyte                               | Hepatocellular Adenoma        |                       |
|                   |  | Hypertrophy                   | Minimal               |
|                   |  | Pigment                       | Mild                  |
|                   | [ Hepatocellular Adenoma TGLs = 1 - 18 ] |                               |                       |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Marked    |
|                   |  | Inflammation                  | Chronic Active, Mild  |
|                   | [ Infiltration Cellular TGLs = 2 - 6+7 ] |                               |                       |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal               |
| * Ovary           | Bilateral                                | Atrophy                       | Mild                  |
| * Pituitary Gland | Pars Distalis                            | Hyperplasia                   | Minimal               |
| * Spleen          |  | Extramedullary Hematopoiesis  | Minimal               |
|                   |  | Pigment                       | Moderate              |
| * Thymus          |  | Atrophy                       | Mild                  |
| * Uterus          | Endometrium                              | Hyperplasia                   | Cystic, Moderate      |
|                   | Endometrium                              | Metaplasia                    | Squamous, Mild        |
|                   |  | Polyp Stromal                 |                       |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 471

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300486

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 | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           | * Uterus                 |                            |                           |

MISSING

- \* Thymus

OBSERVATIONS

- |                 |  |                              |                       |
|-----------------|--|------------------------------|-----------------------|
| * Bone Marrow   |  | Hypercellularity             | Marked                |
| * Heart         |  | Cardiomyopathy               | Minimal               |
| * Kidney        |  | Nephropathy                  | Chronicprogr, Minimal |
| * Liver         | Hepatocyte                               | Cytoplasmic Alteration       | Moderate              |
|                 | Hepatocyte                               | Hypertrophy                  | Minimal               |
|                 |  | Pigment                      | Mild                  |
| * Lung          |  | Infiltration Cellular        | Histiocyte, Moderate  |
|                 | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                              |                       |
| * Mammary Gland |  | Hyperplasia                  | Moderate              |
| * Ovary         | Follicle                                 | Cyst                         |                       |
| * Spleen        |  | Extramedullary Hematopoiesis | Mild                  |
|                 |  | Pigment                      | Mild                  |

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 472

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Brain
- \* Kidney
- \* Liver
- \* Lung
- \* Ovary
- \* Pituitary Gland
- \* Spleen
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Pineal Gland
- Hepatocyte
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- Follicle
- Pars Distalis
- [ Adenoma TGLs = 2 - 11 ]
- C Cell
- Endometrium
- Carcinoma
- Nephropathy
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Inflammation
- Cyst
- Adenoma
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Hyperplasia
- Hyperplasia
- Chronicprogr, Minimal
- Mild
- Minimal
- Histiocyte, Moderate
- Chronic Active, Mild
- Mild
- Mild
- Mild
- Marked
- Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 474

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300489

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, 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, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hypercellularity	Mild
* Intestine Large, Colon		Infiltration Cellular	Histiocyte, Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Cytoplasmic Alteration	Moderate
	Hepatocyte	Hypertrophy	Minimal
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Mammary Gland		Fibroadenoma	
	[ Fibroadenoma TGLs = 2 - 20 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Ovary	Bilateral	Atrophy	Mild
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Metaplasia	Squamous, Minimal
		Polyp Stromal	
	[ Polyp Stromal TGLs = 1 - 19 ]		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 475

TRT#: 10

SEX: Female

DAY ON TEST: 741

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Mammary Gland
- \* Nose
- \* Pituitary Gland
- [ Adenoma TGLs = 2 - 11 ]
- \* Spleen
- \* Thymus
- Degeneration
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Hypertrophy
- Pigment
- Infiltration Cellular
- Inflammation
- Hyperplasia
- Accumulation, Hyaline Droplet
- Adenoma
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Cystic, Minimal
- Minimal
- Chronicprogr, Minimal
- Moderate
- Minimal
- Mild
- Histiocyte, Moderate
- Granulomatous, Mild
- Moderate
- Minimal
- Mild
- Minimal
- Mild
- Mild

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 476

TRT#: 10

SEX: Female

DAY ON TEST: 741

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300491

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 | * Ovary                    | * Pancreas                | * Salivary Glands           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          | * Uterus                  |                             |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                   |  |                               |                       |
|-------------------|--|-------------------------------|-----------------------|
| * Adrenal Cortex  |  | Degeneration                  | Cystic, Mild          |
| * Bone Marrow     |  | Hypercellularity              | Minimal               |
| * Heart           |  | Cardiomyopathy                | Minimal               |
| * Kidney          |  | Nephropathy                   | Chronicprogr, Minimal |
| * Liver           | Hepatocyte                               | Cytoplasmic Alteration        | Mild                  |
|                   | Hepatocyte                               | Hepatocellular Adenoma        |                       |
|                   |  | Hypertrophy                   | Minimal               |
|                   |  | Pigment                       | Mild                  |
|                   | [ Hepatocellular Adenoma TGLs = 2 - 20 ] |                               |                       |
| * Lung            |  | Infiltration Cellular         | Histiocyte, Moderate  |
|                   |  | Inflammation                  | Granulomatous, Mild   |
|                   | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                               |                       |
| * Mammary Gland   |  | Fibroadenoma                  |                       |
|                   |  | Hyperplasia                   | Mild                  |
|                   | [ Fibroadenoma TGLs = 1 - 19 ]           |                               |                       |
| * Nose            | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal               |
| * Pituitary Gland |  | Cyst                          |                       |
| * Spleen          |  | Extramedullary Hematopoiesis  | Mild                  |
|                   |  | Pigment                       | Mild                  |
| * Thymus          |  | Atrophy                       | Moderate              |

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 478

TRT#: 10

SEX: Female

DAY ON TEST: 741

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Heart
- \* Kidney
- \* Liver
- \* Lung
- \* Nose
- \* Ovary
- \* Thymus
- \* Thyroid Gland
- \* Uterus
- Angiectasis
- Degeneration
- Hypercellularity
- Cardiomyopathy
- Nephropathy
- Clear Cell Focus
- Hepatocyte
- Hepatocyte
- Cytoplasmic Alteration
- Eosinophilic Focus
- Hypertrophy
- Pigment
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Atrophy
- Atrophy
- Hyperplasia
- Hyperplasia
- Mild
- Cystic, Minimal
- Mild
- Minimal
- Chronicprogr, Minimal
- Moderate
- Minimal
- Mild
- Histiocyte, Moderate
- Granulomatous, Mild
- Minimal
- Mild
- Mild
- Marked
- Cystic, Mild

[ Infiltration Cellular TGLs = 1 - 6+7 ]

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 479

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 741

**DOSE:** 10000 ppm Female

**DISP:** Terminal Sacrifice

**HISTO:** 1300494

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Squamous Cell Papilloma

Multiple

[ Inflammation TGLs = 4 - 17 ]

[ Metaplasia TGLs = 2 - 20 ]

[ Squamous Cell Papilloma TGLs = 3 - 21 ]

---

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 480

TRT#: 10

SEX: Female

DAY ON TEST: 662

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1300495

**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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Clitoral Gland

**OBSERVATIONS**

* Bone Marrow		Hypercellularity	Moderate
		Pigment	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
		Hepatocellular Adenoma	
		Necrosis	Mild
		Pigment	Mild
	[ Hepatocellular Adenoma TGLs = 3 - 19 ]		
* 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
* Ovary	Bilateral	Atrophy	Mild
* Spleen		Extramedullary Hematopoiesis	Moderate
		Pigment	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 481

TRT#: 10

SEX: Female

DAY ON TEST: 404

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300496

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 | * Nose                     |
| * Pancreas                | * Pituitary Gland           | * Salivary Glands        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                 |                                  |                              |                       |
|-----------------|----------------------------------|------------------------------|-----------------------|
| * Bone Marrow   |                                  | Hypercellularity             | Marked                |
| * Kidney        |                                  | Nephropathy                  | Chronicprogr, Minimal |
| * Liver         |                                  | Extramedullary Hematopoiesis | Minimal               |
| * Lung          |                                  | Infiltration Cellular        | Histiocyte, Mild      |
| * Mammary Gland |                                  | Adenocarcinoma               |                       |
|                 | [ Adenocarcinoma TGLs = 1 - 18 ] |                              |                       |
| * Ovary         | Bilateral                        | Atrophy                      | Mild                  |
| * Spleen        |                                  | Extramedullary Hematopoiesis | Moderate              |
|                 |                                  | Pigment                      | Minimal               |
| * Uterus        | Endometrium                      | Hyperplasia                  | Cystic, Minimal       |
|                 | Endometrium                      | Metaplasia                   | Squamous, Minimal     |

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 483

TRT#: 10

SEX: Female

DAY ON TEST: 603

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1300498

**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 | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

**OBSERVATIONS**

- |                   |  |                        |                        |
|-------------------|--|------------------------|------------------------|
| * Bone Marrow     |  | Hypercellularity       | Moderate               |
| * Eye             |  | Phthisis Bulbi         |                        |
|                   | [ Phthisis Bulbi TGLs = 4 - 13 ]         |                        |                        |
| * Kidney          |  | Nephropathy            | Chronicprogr, Minimal  |
| * Liver           | Hepatocyte                               | Cytoplasmic Alteration | Minimal                |
|                   |  | Pigment                | Moderate               |
| * Lung            |  | Infiltration Cellular  | Histiocyte, Moderate   |
|                   | [ Infiltration Cellular TGLs = 3 - 6+7 ] |                        |                        |
| * Ovary           | Bilateral                                | Atrophy                | Mild                   |
| * Pituitary Gland | Pars Distalis                            | Adenoma                |                        |
| * Spleen          | White Pulp                               | Atrophy                | Mild                   |
|                   |  | Pigment                | Moderate               |
| * Thymus          |  | Atrophy                | Moderate               |
| * Uterus          | Endometrium                              | Hyperplasia            | Cystic, Marked         |
|                   |  | Inflammation           | Chronic Active, Marked |
|                   | [ Inflammation TGLs = 1 - 16+17+18 ]     |                        |                        |

PRIMARY CAUSE OF DEATH - Uterus Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 484

TRT#: 10

SEX: Female

DAY ON TEST: 596

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300499

**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	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Moderate
* Kidney		Infarct	Minimal
		Nephropathy	Chronicprogr, Mild
* Liver		Basophilic Focus	
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Adenocarcinoma	
	[ Adenocarcinoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Ovary	Bilateral	Atrophy	Mild
* Spleen	White Pulp	Atrophy	Moderate
		Extramedullary Hematopoiesis	Minimal
		Pigment	Mild
* Stomach, Glandular		Mineral	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 485

TRT#: 10

SEX: Female

DAY ON TEST: 475

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1300500

**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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Bone Marrow		Hypercellularity	Moderate
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Ovary	Bilateral	Atrophy	Mild
* Spleen	White Pulp	Atrophy	Mild
		Extramedullary Hematopoiesis	Mild
		Pigment	Moderate
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
		Inflammation	Chronic Active, Marked
	Endometrium	Metaplasia	Squamous, Mild
	[ Inflammation TGLs = 1 - 16+17+18 ]		

PRIMARY CAUSE OF DEATH - Uterus Inflammation

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 486

TRT#: 10

SEX: Female

DAY ON TEST: 642

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1300501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Jejunum
- \* Nose
- \* Skin
- Blood Vessel
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Pancreas
- \* Thyroid Gland
- \* Bone
- \* Eye
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- \* Trachea
- \* Brain
- \* Harderian Gland
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Urinary Bladder

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Adrenal Cortex Histiocytic Sarcoma
- \* Bone Marrow Hypercellularity Moderate
- \* Heart Histiocytic Sarcoma
  - [ Histiocytic Sarcoma TGLs = 4 - 20 ]
- \* Intestine Large, Rectum Parasite Metazoan
- \* Kidney Histiocytic Sarcoma
- \* Liver Infarct Mild
- Extramedullary Hematopoiesis Minimal
- Necrosis Moderate
- Pigment Marked
- \* Lung Histiocytic Sarcoma
  - [ Histiocytic Sarcoma TGLs = 2 - 6+7 ]
- Lymph Node Mediastinal Histiocytic Sarcoma
  - [ Histiocytic Sarcoma TGLs = 3 - 19 ]
- \* Mammary Gland Adenocarcinoma
- Histiocytic Sarcoma
  - [ Adenocarcinoma TGLs = 1 - 18 ]
- \* Ovary Bilateral Atrophy Mild
- \* Spleen White Pulp Atrophy Mild
- Extramedullary Hematopoiesis Moderate
- Pigment Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 486

TRT#: 10

SEX: Female

DAY ON TEST: 642

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1300501

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular		Histiocytic Sarcoma	
		Necrosis	Mild
* Thymus		Atrophy	Marked
		Histiocytic Sarcoma	
* Uterus		Hemorrhage	Mild
	Endometrium	Metaplasia	Squamous, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Adenocarcinoma

CONTRIBUTORY CAUSE OF DEATH - Lung Histiocytic Sarcoma

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 487

TRT#: 10

SEX: Female

DAY ON TEST: 740

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300502

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
- \* Ovary
- \* Skin
- \* Trachea
- \* Bone
- \* Eye
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Parathyroid Gland
- \* Stomach, Forestomach
- \* Urinary Bladder
- \* Brain
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Pituitary Gland
- \* Stomach, Glandular

OBSERVATIONS

- \* Adrenal Cortex
- \* Bone Marrow
- \* Kidney
- \* Liver
- \* Lung
- [ Infiltration Cellular TGLs = 1 - 6+7 ]
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Pancreas
- \* Spleen
- \* Thymus
- \* Uterus
- Hepatocyte
- Olfactory Epi Acinus
- Endometrium
- Endometrium
- Degeneration
- Hypercellularity
- Nephropathy
- Cytoplasmic Alteration
- Pigment
- Infiltration Cellular
- Inflammation
- Atrophy
- Hyperplasia
- Accumulation, Hyaline Droplet
- Hyperplasia
- Extramedullary Hematopoiesis
- Pigment
- Atrophy
- Adenocarcinoma
- Atypical Hyperplasia
- Polyp Stromal
- Cystic, Mild
- Mild
- Chronicprogr, Minimal
- Moderate
- Mild
- Histiocyte, Moderate
- Granulomatous, Mild
- Mild
- Minimal
- Minimal
- Marked
- Mild
- Mild
- Moderate
- Marked

\* PROTOCOL REQUIRED TISSUE









Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 491

TRT#: 10

SEX: Female

DAY ON TEST: 741

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300506

**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	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hypercellularity	Marked
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Cytoplasmic Alteration	Mild
		Pigment	Moderate
* Lung		Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Minimal
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Ovary	Bilateral	Atrophy	Minimal
		Cyst	
* Pancreas	Acinus	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Adenocarcinoma	
	Endometrium	Hyperplasia	Cystic, Marked
		Inflammation	Chronic Active, Marked
	[ Inflammation TGLs = 1 - 16+17+18+19 ]		

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 492

TRT#: 10

SEX: Female

DAY ON TEST: 741

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300507

**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

**OBSERVATIONS**

* Bone Marrow		Hypercellularity	Mild
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Mild
	Hepatocyte	Hypertrophy	Minimal
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Granulomatous, Minimal
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Ovary	Bilateral	Atrophy	Mild
* Pancreas	Acinus	Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Extramedullary Hematopoiesis	Mild
		Pigment	Mild
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Adenocarcinoma	
	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Metaplasia	Squamous, Mild

Note: Squamous metaplasia is present in lumenal part of tumor (differential is presence of squamous cell carcinoma in addition).

[ Adenocarcinoma TGLs = 1 - 19 ]

Experiment Number: 10188 - 01

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: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 493

TRT#: 10

SEX: Female

DAY ON TEST: 656

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1300508

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
- \* Nose
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea

MISSING

- \* Urinary Bladder

OBSERVATIONS

- \* Bone Marrow
- Hypercellularity
- Marked
- \* Kidney
- Carcinoma
- Metastatic (Pancreas)
- \* Liver
- Hepatocyte
- Cytoplasmic Alteration
- Mild
- Inflammation
- Chronic Active, Moderate
- Necrosis
- Mild
- Pigment
- Marked
- \* Lung
- Carcinoma
- Metastatic (Pancreas)
- Infiltration Cellular
- Histiocyte, Moderate
- [ Infiltration Cellular TGLs = 2 - 6+7 ]
- Mesentery
- Carcinoma
- Metastatic (Pancreas)
- \* Ovary
- Cyst
- Cyst
- TGLs = 4 - 15 ]
- \* Pancreas
- Acinus
- Carcinoma
- Note: Carcinoma with some squamous differentiation.
- [ Carcinoma TGLs = 3 - 18 ]
- Skeletal Muscle
- Carcinoma
- Metastatic (Pancreas)
- \* Spleen
- White Pulp
- Atrophy
- Marked
- Carcinoma
- Metastatic (Pancreas)
- Pigment
- Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

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**ANIMAL ID:** 493

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 656

**DOSE:** 10000 ppm Female

**DISP:** Natural Death

**HISTO:** 1300508

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thymus

Atrophy

Moderate

\* Uterus

Carcinoma

Metastatic (Pancreas)

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PRIMARY CAUSE OF DEATH

- Pancreas Acinus Carcinoma

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Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

ANIMAL ID: 494

TRT#: 10

SEX: Female

DAY ON TEST: 642

DOSE: 10000 ppm Female

DISP: Natural Death

HISTO: 1300509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Rectum	* Kidney
* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

MISSING

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Lymph Node, Mesenteric
* Ovary	* Spleen	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
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OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
		Necrosis	Minimal
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Mild
	[ Infiltration Cellular TGLs = 2 - 6+7 ]		
* Mammary Gland		Fibroadenoma	Multiple
	Note: Second fibroadenoma present in routine mammary section.		
	[ Fibroadenoma TGLs = 1 - 18 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN



Experiment Number: 10188 - 01  
Test Type: CHRONIC  
Route: DOSED FEED  
Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
Time Report Requested: 10:43:08  
First Dose M/F: 02/17/11 / 02/18/11  
Lab: BAT

ANIMAL ID: 495

TRT#: 10

SEX: Female

DAY ON TEST: 662

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300510

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Lymphoma Malignant	
Skeletal Muscle		Lymphoma Malignant	
* Spleen		Extramedullary Hematopoiesis	Mild
		Hemorrhage	Marked
		Lymphoma Malignant	
	[ Hemorrhage TGLs = 2 - 18 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Acute, Minimal
		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Thyroid Gland		Lymphoma Malignant	
* Trachea		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	
* Uterus		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Pancreas Lymphoma Malignant





Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 497

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300512

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   |
| * Mammary Gland           | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

OBSERVATIONS

- |               |  |                               |                      |
|---------------|--|-------------------------------|----------------------|
| * Bone Marrow |  | Hypercellularity              | Mild                 |
| * Liver       | Hepatocyte                               | Cytoplasmic Alteration        | Marked               |
|               | Hepatocyte                               | Hypertrophy                   | Moderate             |
|               |  | Pigment                       | Moderate             |
| * Lung        |  | Infiltration Cellular         | Histiocyte, Moderate |
|               |  | Inflammation                  | Granulomatous, Mild  |
|               | [ Infiltration Cellular TGLs = 1 - 6+7 ] |                               |                      |
| * Nose        | Olfactory Epi                            | Accumulation, Hyaline Droplet | Minimal              |
| * Ovary       | Follicle                                 | Cyst                          |                      |
| * Spleen      |  | Pigment                       | Mild                 |
| * Thymus      |  | Atrophy                       | Moderate             |

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 498

TRT#: 10

SEX: Female

DAY ON TEST: 736

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300513

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

OBSERVATIONS

- \* Bone Marrow: Hypercellularity, Mild
- \* Kidney: Nephropathy, Chronicprogr, Minimal
- \* Liver: Hepatocyte, Cytoplasmic Alteration, Degeneration, Eosinophilic Focus, Hypertrophy, Pigment, Infiltration Cellular, Fibroadenoma, Moderate, Cystic, Minimal
- \* Lung: [ Infiltration Cellular TGLs = 2 - 6+7 ], [ Fibroadenoma TGLs = 1 - 18 ], Hypertrophy, Pigment, Infiltration Cellular, Histiocyte, Mild
- \* Mammary Gland: Fibroadenoma
- \* Nose: Olfactory Epi, Accumulation, Hyaline Droplet, Minimal
- \* Ovary: Bilateral, Atrophy, Mild
- \* Spleen: Extramedullary Hematopoiesis, Pigment, Moderate
- \* Thymus: Atrophy, Mild
- \* Thyroid Gland: C Cell, Adenoma
- \* Uterus: Endometrium, Hyperplasia, Cystic, Mild; Endometrium, Metaplasia, Squamous, Mild; Polyp Stromal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 10188 - 01

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 12/17/2019

Time Report Requested: 10:43:08

First Dose M/F: 02/17/11 / 02/18/11

Lab: BAT

ANIMAL ID: 499

TRT#: 10

SEX: Female

DAY ON TEST: 740

DOSE: 10000 ppm Female

DISP: Terminal Sacrifice

HISTO: 1300514

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
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Salivary Glands
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thyroid Gland
- \* Trachea
- \* Urinary Bladder
- \* Uterus

OBSERVATIONS

- \* Bone Marrow      Hypercellularity      Mild
- \* Kidney      Nephropathy      Chronicprogr, Minimal
- \* Liver      Clear Cell Focus
- Hepatocyte      Cytoplasmic Alteration      Mild
- Hepatocyte      Hypertrophy      Mild
- Pigment      Mild
- \* Lung      Infiltration Cellular      Histiocyte, Minimal
- Inflammation      Granulomatous, Mild
- [ Infiltration Cellular      TGLs = 1 - 6+7 ]
- \* Mammary Gland      Hyperplasia      Mild
- \* Nose      Olfactory Epi      Accumulation, Hyaline Droplet      Minimal
- \* Pancreas      Acinus      Hyperplasia      Marked
- \* Spleen      Pigment      Mild
- \* Thymus      Atrophy      Moderate

Experiment Number: 10188 - 01  
 Test Type: CHRONIC  
 Route: DOSED FEED  
 Species/Strain: RATS/HSD

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

Date Report Requested: 12/17/2019  
 Time Report Requested: 10:43:08  
 First Dose M/F: 02/17/11 / 02/18/11  
 Lab: BAT

ANIMAL ID: 500

TRT#: 10

SEX: Female

DAY ON TEST: 663

DOSE: 10000 ppm Female

DISP: Moribund Sacrifice

HISTO: 1300515

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	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hypercellularity	Marked
* Kidney		Nephropathy	Chronicprogr, Minimal
* Liver	Hepatocyte	Cytoplasmic Alteration	Minimal
	Hepatocyte	Extramedullary Hematopoiesis	Minimal
		Hypertrophy	Minimal
		Pigment	Mild
* Lung		Infiltration Cellular	Histiocyte, Moderate
	[ Infiltration Cellular TGLs = 3 - 6+7 ]		
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
* Ovary		Hemangiosarcoma	
	[ Hemangiosarcoma TGLs = 2 - 15 ]		
* Spleen		Extramedullary Hematopoiesis	Moderate
* Thymus		Atrophy	Mild
* Uterus		Hemorrhage	Minimal
	Endometrium	Hyperplasia	Cystic, Marked
		Inflammation	Chronic Active, Marked
	[ Hyperplasia TGLs = 1 - 16+17+18 ]		

PRIMARY CAUSE OF DEATH - Uterus Inflammation

\*\*\* END OF REPORT \*\*\*