

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

D_RE

C Number: C20320

Lock Date: 03/24/2011

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25021 TSAC
25018 DACC

25020 NATD

25019 MSAC

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 2.3.1

PWG Approval Date: NONE

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Date Report Requested: 03/31/2011

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 648

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901766

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

OBSERVATIONS

- | | | | |
|-------------------|------------------------------------|------------------|------------------|
| * Brain | | Compression | Marked |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Mild |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | [Angiectasis TGLs = 4,5,6-17+18] | | |
| * Lung | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Prostate | | Inflammation | Mild |
| * Skin | | Ulcer | Moderate |
| | [Ulcer TGLs = 2,3-15+16] | | |
| * Spleen | Lymph Follic | Atrophy | Marked |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

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Tetrabromobisphenol A

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Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901767

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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Cyst	Minimal
		Nephropathy	Minimal
	[Cyst TGLs = 2-15]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-14]		
* Prostate	Artery	Inflammation	Mild
* Seminal Vesicle		Inflammation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901769

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

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

OBSERVATIONS

- | | | |
|------------------------|-----------------------|---------|
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Clear Cell Focus | |
| * Stomach, Forestomach | Mineralization | Minimal |
| * Thymus | Atrophy | Mild |
| * Thyroid Gland | C Cell
Hyperplasia | Minimal |

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 622

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901770

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 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	* Skin
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Mild
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-14]			
* Prostate		Inflammation	Minimal
* Seminal Vesicle		Inflammation	Mild
* Spleen	Lymph Follic	Atrophy	Minimal
* Stomach, Forestomach		Inflammation	Chronic, Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicular Cel	Adenoma	
[Adenoma TGLs = 2-15]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

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Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 638

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901771

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 Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Glandular | * Testes | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|------------------------|-------------------------|----------------------------------|---------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Brain | | Compression | Marked |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Mild |
| * Pituitary Gland | Pars Distalis | Mixed Cell Focus | |
| | [Adenoma TGLs = 2-15] | Adenoma | |
| * Prostate | | Inflammation | Mild |
| * Skin | | Ulcer | Moderate |
| | [Ulcer TGLs = 1-14] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | | Inflammation | Chronic, Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 517

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- * Trachea
- * Bone
- * Eye
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Skin
- * Urinary Bladder
- * Bone Marrow
- * Harderian Gland
- * Intestine Small, Jejunum
- * Mammary Gland
- * Prostate
- * Testes
- * Epididymis
- * Intestine Large, Cecum
- * Islets, Pancreatic
- * Nose
- * Salivary Glands
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - [Hyperplasia TGLs = 5-18]
 - Blood Vessel
 - Adventitia, Aorta
 - * Brain
 - * Heart
 - * Intestine Large, Colon
 - * Intestine Large, Rectum
 - * Kidney
 - * Liver
 - [Necrosis TGLs = 2,3-15+16]
 - * Lung
 - Mesentery
 - [Necrosis TGLs = 6-19]
 - * Pancreas
 - [Necrosis TGLs = 1-14]
 - * Pituitary Gland
 - [Adenoma TGLs = 7-20]
 - * Spleen
 - * Stomach, Forestomach
- Degeneration
 - Hyperplasia
 - Hemorrhage
 - Compression
 - Cardiomyopathy
 - Ulcer
 - Ulcer
 - Nephropathy
 - Clear Cell Focus
 - Fatty Change
 - Necrosis
 - Inflammation
 - Necrosis
 - Necrosis
 - Adenoma
 - Necrosis
 - Necrosis
 - Cystic, Marked
 - Marked
 - Moderate
 - Moderate
 - Mild
 - Mild
 - Mild
 - Moderate
 - Minimal
 - Mild
 - Chronic, Minimal
 - Mild
 - Moderate
 - Marked
 - Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

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Lab: BAT

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 517

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901772

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Necrosis

Marked

[Necrosis TGLs = 4-17]

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

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Tetrabromobisphenol A

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 587

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Harderian Gland

OBSERVATIONS

- | | | |
|----------------------------------|------------------|------------------------------|
| * Bone | Rhabdomyosarcoma | Metastatic (Skeletal Muscle) |
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy | Minimal |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| | Fatty Change | Minimal |
| * Nose | Inflammation | Mild |
| Skeletal Muscle | Rhabdomyosarcoma | |
| [Rhabdomyosarcoma TGLs = 1-14] | | |
| * Thymus | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Skeletal Muscle Rhabdomyosarcoma

TDMS No. 20320 - 03

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|-------------------|-----------------------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Mild |
| * Eye | Retina | Atrophy | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Intermed | Hyperplasia | Mild |
| * Skin | | Ulcer | Moderate |
| | [Ulcer TGLs = 1-15] | | |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

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Species/Strain: RATS/Wistar Han

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 2

DOSE: 0 mg/kg

DISP: Natural Death

HISTO: 0901775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------|--------------------------------------------------------------------------------------|----------------------------------|------|
| * Lung | Alveolus | Inflammation | Mild |
| | Note: Inflammation associated with alveolar fibrin, edema and scattered eosinophils. | | |
| * Spleen | Lymph Follic | Atrophy | Mild |
| | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH - Lung Alveolus Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

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Tetrabromobisphenol A

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901776

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

OBSERVATIONS

- | | | | |
|------------------|----------|---------------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Vacuolization Cytoplasmic | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicle | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

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Date Report Requested: 03/31/2011

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901778

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

OBSERVATIONS

- | | | |
|----------|------------------|------------------|
| * Kidney | Nephropathy | Minimal |
| * Liver | Clear Cell Focus | |
| | Fatty Change | Minimal |
| * Lung | Inflammation | Chronic, Minimal |
| * Thymus | Atrophy | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

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First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 196

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901779

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Leukemia Mononuclear	
	Ulcer	Mild
* Pancreas	Leukemia Mononuclear	
* Prostate	Leukemia Mononuclear	
* Salivary Glands	Leukemia Mononuclear	
* Spleen	Leukemia Mononuclear	
* Stomach, Glandular	Ulcer	Mild
* Testes	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-11]	
* Thymus	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901781

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

OBSERVATIONS

- | | | | |
|-----------------|---------------------------------|----------------------------------|----------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Skin | | Keratoacanthoma | |
| | | Ulcer | Moderate |
| | [Keratoacanthoma TGLs = 1-15] | | |
| | [Ulcer TGLs = 2-16] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | Follicle | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 687

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Brain
- * Kidney
- * Liver
- Bile Duct
- [Mixed Cell Focus TGLs = 4-17]
- * Lung
- [Inflammation TGLs = 5-3+4]
- * Pituitary Gland
- [Adenoma TGLs = 2-15]
- * Prostate
- * Skin
- [Ulcer TGLs = 1-14]
- * Spleen
- [Hemangioma TGLs = 3-16]
- * Thymus
- Hyperplasia
- Compression
- Inflammation
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Hyperplasia
- Mixed Cell Focus
- Inflammation
- Adenoma
- Inflammation
- Ulcer
- Hemangioma
- Atrophy
- Minimal
- Moderate
- Suppurative, Mild
- Mild
- Minimal
- Granulomatous, Minimal
- Minimal
- Moderate
- Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 533

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901784

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, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Glandular | * Testes |
| * Thyroid Gland | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|------------------------|--------------------------------------------|----------------------------|-------------------|
| * Brain | | Compression | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | [Hepatodiaphragmatic Nodule TGLs = 1-14] | Hepatodiaphragmatic Nodule | |
| * Lung | | Inflammation | Chronic, Minimal |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-15] | | |
| * Prostate | | Inflammation | Minimal |
| * Stomach, Forestomach | | Inflammation | Chronic, Moderate |
| * Thymus | | Atrophy | Moderate |
| * Trachea | | Inflammation | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901785

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

OBSERVATIONS

- | | | |
|----------|------------------|---------|
| * Kidney | Nephropathy | Minimal |
| * Liver | Clear Cell Focus | |
| | Fatty Change | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 241

DOSE: 0 mg/kg

DISP: Dosing Accident

HISTO: 0901786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 | * Kidney |
| * 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 | * Testes |
| * Thyroid Gland | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--------------|------------------------------|--------------|-------------------|
| Blood Vessel | Aorta | Inflammation | Chronic, Moderate |
| * Esophagus | | Inflammation | Moderate |
| | [Inflammation TGLs = 2-14] | | |
| * Heart | Atrium, Epicardium | Inflammation | Chronic, Moderate |
| * Nose | Goblet Cell | Hyperplasia | Mild |
| * Spleen | Lymph Follic | Atrophy | Minimal |
| * Thymus | | Inflammation | Chronic, Mild |
| * Trachea | Peritrach Tiss | Inflammation | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901787

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

OBSERVATIONS

- | | | | |
|-------------------|-----------------------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Testes | | Edema | Moderate |
| | [Edema TGLs = 1-14] | | |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901789

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, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- | | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------|------------------|----------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Salivary Glands | | Myoepithelioma | |
| | [Myoepithelioma TGLs = 1-14] | | |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901790

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 |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Testes | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|------------------------------|---------------|----------------------------------|-----------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| Mesentery | | Inflammation | Chronic, Marked |
| [Inflammation TGLs = 2-15] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | | Inflammation | Chronic, Marked |
| | | Ulcer | Moderate |
| * Stomach, Glandular | | Inflammation | Chronic, Marked |
| [Inflammation TGLs = 1-14] | | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Adenoma | Multiple |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901791

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

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hyperplasia | Mild |
| * Thymus | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901792

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 Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Hyperplasia	Mild
* Prostate		Hyperplasia	Minimal
* Skin		Trichoepithelioma	
	[Trichoepithelioma TGLs = 1-15]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901793

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

OBSERVATIONS

- | | | | |
|----------|------------|----------------------------------|----------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| * Lung | Bronchiole | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|------------------|----------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 3-15] | | |
| * Pituitary Gland | Pars Intermed | Adenoma | |
| | [Adenoma TGLs = 2-8] | | |
| * Testes | | Edema | Mild |
| | [Edema TGLs = 1-14] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 695

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------------------------|----------------------------------|----------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Hyperplasia | Minimal |
| * Skin | | Trichoepithelioma | Multiple |
| | [Trichoepithelioma TGLs = 1,2-14+15] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | [Hematopoietic Cell Proliferation TGLs = 3-5] | | |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Skin Trichoepithelioma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Vacuolization Cytoplasmic
- * Kidney
 - Nephropathy
- * Liver
 - Basophilic Focus
 - Clear Cell Focus
 - Fatty Change
 - Hyperplasia
- Lymph Node
 - Mediastinal
 - [Hyperplasia TGLs = 4-17]
 - Pars Distalis
 - Adenoma
 - Inflammation
- * Pituitary Gland
- * Preputial Gland
 - [Inflammation TGLs = 2-15]
- * Skin
 - [Keratoacanthoma TGLs = 3-16]
- * Testes
 - [Edema TGLs = 1-11+14]
- * Thymus
 - Atrophy

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901797

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 | * Kidney |
| * 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 | * Testes | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|------------|---------------------------|---------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Harderian Gland | | Inflammation | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | Bronchiole | Hyperplasia | Minimal |
| * Pituitary Gland | | Cyst | Minimal |
| * Thymus | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 502

DOSE: 0 mg/kg

DISP: Natural Death

HISTO: 0901798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------------|--------------------|---------------|
| * Liver | | Clear Cell Focus | |
| * Lymph Node, Mesenteric | | Hemangioma | |
| | [Hemangioma TGLs = 2-15] | | |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Stomach, Forestomach | | Inflammation | Chronic, Mild |
| * Thymus | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1-14] | | |

PRIMARY CAUSE OF DEATH - Thymus Lymphoma Malignant

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------------------|--------|------------------|---------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Minimal |
| | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Mixed Cell Focus | |
| [Angiectasis TGLs = 1-14] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 465

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901800

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 |
| * Kidney | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------------|----------------------|------------------|
| * Eye | | Inflammation | Moderate |
| | [Inflammation TGLs = 1-10] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Lung | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Prostate | | Inflammation | Mild |
| * Skin | | Schwannoma Malignant | |
| | [Schwannoma Malignant TGLs = 2-14] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Skin Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901802

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Ulcer	Moderate
	[Ulcer TGLs = 1-14]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicle	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 244

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901803

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, 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 | * Preputial Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thyroid Gland |
| * Trachea | | | |

OBSERVATIONS

- | | | | |
|-------------------------------|----------------|--------------|-----------------------|
| * Intestine Large, Colon | | Ulcer | Mild |
| * Kidney | | Inflammation | Suppurative, Moderate |
| [Inflammation TGLs = 3,4-5] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Prostate | | Inflammation | Mild |
| * Seminal Vesicle | | Inflammation | Moderate |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| [Atrophy TGLs = 1-5] | | | |
| * Thymus | | Atrophy | Marked |
| * Urinary Bladder | Transit Epithe | Hemangioma | |
| [Hemangioma TGLs = 2-14] | | | |

PRIMARY CAUSE OF DEATH - Kidney Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|---------------|------------------|----------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901805

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 |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|------------------|----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Inflammation | Suppurative, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Lung | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901806

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 Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------------|---------------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Brain | | Compression | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-14] | | | |
| * Prostate | | Inflammation | Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901807

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lymph Node, Mesenteric		Hemangiosarcoma	
	[Hemangiosarcoma TGLs = 1-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 542

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Kidney
- * Liver
- * Lung
- * Skin
- [Hemangioma TGLs = 1-14]
- [Ulcer TGLs = 2-15]
- * Spleen
- * Thymus
- * Trachea
- Urethra
- Vacuolization Cytoplasmic
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Inflammation
- Hemangioma
- Ulcer
- Hematopoietic Cell Proliferation
- Atrophy
- Inflammation
- Inflammation
- Minimal
- Minimal
- Chronic, Minimal
- Moderate
- Minimal
- Minimal
- Minimal
- Chronic, Moderate

PRIMARY CAUSE OF DEATH - Skin Hemangioma

CONTRIBUTORY CAUSE OF DEATH - Urethra Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901810

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

OBSERVATIONS

- | | | | |
|----------------------|---------------------------------|------------------|----------|
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Marked |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Pancreas | Acinus | Hyperplasia | Mild |
| * Skin | | Keratoacanthoma | |
| | | Ulcer | Moderate |
| | [Keratoacanthoma TGLs = 2-16] | | |
| | [Ulcer TGLs = 1-15] | | |
| * Thymus | | Atrophy | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901811

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

OBSERVATIONS

- | | | | |
|---------------------|-----------------------|------------------|---------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Parathyroid Gland | | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | | Ulcer | Marked |
| | [Ulcer TGLs = 1-15] | | |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Skin Ulcer

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------|--------|------------------|----------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Brain		Granular Cell Tumor Benign	
	[Granular Cell Tumor Benign TGLs = 2-14]		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Mild
* Pancreas		Atrophy	Minimal
* Testes		Edema	Moderate
	[Edema TGLs = 1-11]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901814

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

OBSERVATIONS

- | | | |
|-----------------|------------------|---------|
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Clear Cell Focus | |
| | Fatty Change | Minimal |
| | Mixed Cell Focus | |
| * Nose | Inflammation | Mild |
| * Thymus | Hyperplasia | Mild |
| * Thyroid Gland | Cyst | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901815

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|------------------|-------------------------|---------------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Epididymis | | Atrophy | Marked |
| | [Atrophy TGLs = 2-11] | | |
| * Heart | Epicardium | Fibrosis | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Thymus | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|-----------------------------------------|----------------------------------|-------------------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Vacuolization Cytoplasmic | Minimal |
| Blood Vessel | Adventitia, Aorta | Hemangiosarcoma | Metastatic (Lymph Node, Mesenteric) |
| * Intestine Small, Ileum | | Hemangiosarcoma | Metastatic (Lymph Node, Mesenteric) |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| Lymph Node | Pancreatic | Hemangiosarcoma | Metastatic (Lymph Node, Mesenteric) |
| | [Hemangiosarcoma TGLs = 4-17] | | |
| * Lymph Node, Mesenteric | | Hemangiosarcoma | |
| | [Hemangiosarcoma TGLs = 3-16] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-15] | | |
| * Nose | | Inflammation | Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Prostate | | Inflammation | Minimal |
| * Skin | | Inflammation | Mild |
| | | Squamous Cell Papilloma | |
| | [Squamous Cell Papilloma TGLs = 1-15] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|-----------------------|---------------------------|----------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Mixed Cell Focus | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | | Ulcer | Moderate |
| | [Ulcer TGLs = 1-15] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 485

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901818

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 |
| * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Glandular | * Testes | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|------------------------|-------------------------|------------------|------------------|
| * Brain | | Compression | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| * Lung | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Prostate | | Inflammation | Mild |
| * Stomach, Forestomach | | Inflammation | Chronic, Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 496

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Adrenal Medulla

OBSERVATIONS

- * Brain
- * Lung
 - [Inflammation TGLs = 1-3+4]
- * Pituitary Gland
 - [Adenoma TGLs = 2-14]
- * Prostate
- * Spleen
- * Thymus
- * Thyroid Gland
- Compression
- Inflammation
- Adenoma
- Inflammation
- Atrophy
- Atrophy
- Adenoma
- Hyperplasia
- Marked
- Granulomatous, Minimal
- Minimal
- Mild
- Marked
- Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901821

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
- * Pancreas
- * Parathyroid Gland
- * Prostate
- * Salivary Glands
- * Stomach, Forestomach
- * Stomach, Glandular
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Testes
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Nose
- * Preputial Gland
- * Spleen
- * Trachea

OBSERVATIONS

- * Heart
- * Intestine Large, Rectum
- * Kidney
- * Liver
- * Lung
- * Skin
- * Thymus
- * Thyroid Gland
- Bronchiole
- [Keratoacanthoma TGLs = 1-15]
- C Cell
- Cardiomyopathy
- Parasite Metazoan
- Nephropathy
- Clear Cell Focus
- Fatty Change
- Hyperplasia
- Keratoacanthoma
- Atrophy
- Hyperplasia
- Minimal
- Minimal
- Minimal
- Minimal
- Minimal
- Minimal
- Minimal
- Minimal
- Minimal

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 59

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901822

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|---------------|---------------------------|---------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| | Endocardium | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | Pars Intermed | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901824

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

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------|------------------|------------------|
| * Adrenal Cortex | | Necrosis | Moderate |
| * Adrenal Medulla | | Necrosis | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Hydronephrosis | Mild |
| | | Nephropathy | Minimal |
| | [Hydronephrosis TGLs = 1-14] | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Lung | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 622

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Brain
- * Kidney
- * Liver
- * Lymph Node, Mesenteric
- * Pituitary Gland
[Adenoma TGLs = 1-14]
- * Spleen
- * Stomach, Forestomach
[Inflammation TGLs = 2-15]
- * Stomach, Glandular
- * Thymus
- * Thyroid Gland
- Bile Duct
- Pars Distalis
- C Cell
- Vacuolization Cytoplasmic
- Compression
- Inflammation
- Fatty Change
- Hyperplasia
- Hyperplasia
- Adenoma
- Hematopoietic Cell Proliferation
- Inflammation
- Inflammation
- Atrophy
- Hyperplasia
- Minimal
- Moderate
- Suppurative, Mild
- Moderate
- Minimal
- Lymphoid, Mild
- Mild
- Chronic, Mild
- Chronic, Minimal
- Moderate
- Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 397

DOSE: 250 mg/kg

DISP: Natural Death

HISTO: 0901826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * 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 |
| * Testes | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------|---------------|--------------|----------|
| * Brain | | Compression | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Mild |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2-14] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 657

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------------|---------------|--------------|----------|
| * Brain | | Compression | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Mild |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-15] | | | |
| * Prostate | | Inflammation | Mild |
| * Seminal Vesicle | | Inflammation | Minimal |
| * Skin | | Ulcer | Moderate |
| [Ulcer TGLs = 1-14] | | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901828

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

OBSERVATIONS

- | | | | |
|-------------------------------------------------|---------------|----------------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Clear Cell Focus | |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLs = 4-17] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| [Hematopoietic Cell Proliferation TGLs = 2-5] | | | |
| * Stomach, Forestomach | | Leiomyosarcoma | |
| [Leiomyosarcoma TGLs = 3-14+16] | | | |
| * Testes | | Edema | Moderate |
| * Thymus | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901829

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 Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---------------------------|-----------------------|----------------------------------|----------|
| * Intestine Large, Rectum | | Parasite Metazoan | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | | Ulcer | Moderate |
| | [Ulcer TGLs = 1-14] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901830

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| | [Mixed Cell Focus TGLs = 1-14] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Intermed | Adenoma | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Minimal |
| | [Adenoma TGLs = 2-15] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901831

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 |
| * Kidney | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Testes | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------------|--------------------|----------------|----------|
| * Brain | | Compression | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Fatty Change | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-14] | | | |
| * Prostate | | Inflammation | Minimal |
| * Seminal Vesicle | | Inflammation | Minimal |
| * Stomach, Glandular | Epithelium, Glands | Hyperplasia | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * 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 | * Testes | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------|----------------|------------------|------------------|
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Lung | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicular Cel | Carcinoma | |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 549

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|---------------|---------------------------|---------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Brain | | Compression | Marked |
| * Liver | | Clear Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Prostate | | Inflammation | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901834

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

OBSERVATIONS

- | | | | |
|-----------------|----------------------------|------------------|----------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Spleen | | Angiectasis | Mild |
| | [Angiectasis TGLs = 1-5] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 689

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------|---------------|------------------|----------|
| * Brain | | Compression | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Carcinoma | |
| [Carcinoma TGLs = 1-14] | | | |
| * Prostate | | Inflammation | Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901836

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------|-------------------------------|----------------------------------|---------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | | Inflammation | Granulomatous, Mild |
| | [Inflammation TGLs = 1-3+4] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 2-15]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Skin		Ulcer	Moderate
[Ulcer TGLs = 1-14]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lung |
| * 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 | * Testes | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|------------------|---------|
| * Liver | | Angiectasis | Minimal |
| | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| [Angiectasis TGLs = 1-14] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Thymus | | Atrophy | Marked |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 674

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|-------------------------|----------------------------------|-------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Brain | | Compression | Marked |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Preputial Gland | | Inflammation | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Forestomach | | Inflammation | Chronic, Moderate |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901840

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 | * Kidney | * Lung | * 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 | * Stomach, Glandular | * Testes | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | |
|----------|------------------|---------|
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| | Mixed Cell Focus | |
| * Thymus | Atrophy | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Retina	Atrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Glandular		Mineralization	Moderate
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

[Adenoma TGLs = 1-14]

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 673

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901842

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 Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--------------------------------------------|----------------------------------|----------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 2-14] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Lymph Node, Mesenteric | | Hemangiosarcoma | |
| | [Hemangiosarcoma TGLs = 3-15] | | |
| Peripheral Nerve | Axon | Degeneration | Minimal |
| Spinal Cord | Axon | Degeneration | Moderate |
| * Spleen | Lymph Follic | Atrophy | Mild |
| | | Congestion | Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| | [Congestion TGLs = 1-5] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Vacuolization Cytoplasmic
- * Heart
 - Cardiomyopathy
- * Liver
 - Basophilic Focus
 - Clear Cell Focus
 - Fatty Change
- * Prostate
 - Adenoma
- * Skin
 - Fibroma
 - Ulcer
- [Fibroma TGLs = 1-14]
 - [Ulcer TGLs = 2-15]
- * Spleen
 - Hematopoietic Cell Proliferation
- * Thymus
 - Atrophy
- * Thyroid Gland
 - C Cell
 - Hyperplasia

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901844

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
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Ulcer	Moderate
	[Ulcer TGLs = 1-14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901845

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

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|---------------------------|---------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| | [Mixed Cell Focus TGLs = 1-14] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | | Inflammation | Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 500

DOSE: 250 mg/kg

DISP: Natural Death

HISTO: 0901846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|------------------------|------------------|------------------|
| * Liver | Clear Cell Focus | |
| | Fatty Change | Mild |
| * Stomach, Forestomach | Inflammation | Chronic, Mild |
| * Thymus | Atrophy | Moderate |
| * Trachea | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901847

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

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------|----------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Pituitary Gland | Pars Intermed | Hyperplasia | Moderate |
| * Prostate | | Inflammation | Mild |
| * Thymus | | Atrophy | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 645

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Epididymis | * 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 | * Nose |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|--------------------|------------------|
| * Brain | | Compression | Marked |
| * Harderian Gland | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Minimal |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | [Clear Cell Focus TGLs = 2-14] | | |
| * Lung | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-8] | | |
| * Prostate | | Inflammation | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 35

DOSE: 250 mg/kg

DISP: Natural Death

HISTO: 0901849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Mild
		Necrosis	Minimal
* Eye		Inflammation	Acute, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Multifocal, Suppurative, Moderate
		Necrosis	Moderate
	[Inflammation TGLs = 1,2,3, - 5]		
* Liver	Artery, Vein	Necrosis	Minimal
* Lung		Hemorrhage	Mild
	Alveolar Epith	Necrosis	Minimal
	[Hemorrhage TGLs = 6 - 3 + 4]		
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
		Necrosis	Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Prostate		Inflammation	Marked
* Seminal Vesicle		Inflammation	Moderate
* Spleen	Lymph Follic	Atrophy	Moderate
		Hematopoietic Cell Proliferation	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
	[Hyperplasia TGLs = 4 - 5]		

PRIMARY CAUSE OF DEATH - Kidney Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 701

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|------------------------------|------------------|---------------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-8] | | |
| * Prostate | | Inflammation | Mild |
| * Stomach, Forestomach | | Inflammation | Chronic, Mild |
| | [Inflammation TGLs = 2-14] | | |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 514

DOSE: 250 mg/kg

DISP: Natural Death

HISTO: 0901851

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | |
|-------------------|------------------|----------|
| * Heart | Cardiomyopathy | Mild |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| * Nose | Inflammation | Mild |
| * Pituitary Gland | Cyst | Minimal |
| * Prostate | Inflammation | Mild |
| * Seminal Vesicle | Inflammation | Mild |
| * Thymus | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 596

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|------------------------------------|--------------------|----------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | [Clear Cell Focus TGLs = 3-15] | | |
| | [Eosinophilic Focus TGLs = 3-15] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-8] | | |
| * Preputial Gland | | Inflammation | Minimal |
| * Prostate | | Inflammation | Moderate |
| * Seminal Vesicle | | Inflammation | Moderate |
| * Skin | | Trichoepithelioma | |
| | [Trichoepithelioma TGLs = 1-14] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Prostate Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 605

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|------------------------|---------------|------------------|----------|
| * Brain | | Compression | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-8] | | | |
| * Prostate | | Inflammation | Mild |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| [Atrophy TGLs = 1-5] | | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 723

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Brain
- * Kidney
- * Liver
- * Pituitary Gland
- [Adenoma TGLs = 1-8]
- * Prostate
- * Spleen
- * Stomach, Forestomach
- * Thymus
- * Thyroid Gland
- Vacuolization Cytoplasmic
- Compression
- Nephropathy
- Clear Cell Focus
- Fatty Change
- Adenoma
- Inflammation
- Atrophy
- Inflammation
- Atrophy
- Hyperplasia
- Minimal
- Marked
- Minimal
- Mild
- Mild
- Mild
- Chronic, Mild
- Marked
- Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901855

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

OBSERVATIONS

- | | | | |
|----------------------|---------------|------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Lung | | Inflammation | Granulomatous, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Stomach, Glandular | | Inflammation | Chronic, Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * 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 | * Testes | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------|---------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Mixed Cell Focus | |
| * Lung | Bronchiole | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 625

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|-----------------|--------------------------------------|----------------------|----------|
| * Brain | | Compression | Moderate |
| | [Meningioma Malignant TGLs = 2-15] | Meningioma Malignant | |
| * Liver | | Clear Cell Focus | |
| | [Eosinophilic Focus TGLs = 3-16] | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| * Skin | Epidermis | Hyperplasia | Minimal |
| | [Hyperplasia TGLs = 1-14] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Brain Meningioma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 709

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Brain
- * Liver
- * Pituitary Gland [Adenoma TGLs = 1-14]
- * Preputial Gland
- * Prostate
- * Thymus
- * Thyroid Gland
- Pars Distalis
- C Cell
- Hyperplasia
- Compression
- Clear Cell Focus
- Eosinophilic Focus
- Fatty Change
- Adenoma
- Inflammation
- Inflammation
- Atrophy
- Hyperplasia
- Mild
- Moderate
- Minimal
- Minimal
- Mild
- Marked
- Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 497

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901859

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

OBSERVATIONS

- | | | | |
|------------------------|--------------------------------------|--------------|----------|
| * Epididymis | | Atrophy | Marked |
| * Kidney | | Nephropathy | Marked |
| | [Nephropathy TGLs = 2,3,4-5+14+15] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-16] | | |
| * Prostate | | Atrophy | Moderate |
| | | Inflammation | Mild |
| * Seminal Vesicle | | Atrophy | Moderate |
| * Spleen | Lymph Follic | Atrophy | Marked |
| * Stomach, Forestomach | | Ulcer | Moderate |
| | [Ulcer TGLs = 5-17] | | |
| * Testes | Germinal Epith | Hypoplasia | Marked |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Mineralization	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901861

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

OBSERVATIONS

- | | | | |
|--------------------------|------------|------------------|----------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Lung | Bronchiole | Hyperplasia | Minimal |
| * Lymph Node, Mandibular | | Ectasia | Moderate |
| [Ectasia TGLs = 1-14] | | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901862

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

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------|----------------------------------|---------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Hydronephrosis | Mild |
| | | Nephropathy | Minimal |
| | [Hydronephrosis TGLs = 1-5] | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Inflammation | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901863

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

OBSERVATIONS

- | | | | |
|-------------------------|---------------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-15] | | | |
| * Skin | | Ulcer | Moderate |
| [Ulcer TGLs = 1-14] | | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 101

TRT#: 3

SEX: Male

DAY ON TEST: 618

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Kidney
- * Liver
- [Clear Cell Focus TGLs = 4,6-6+15]
- [Fatty Change TGLs = 1,2,3,5-6+7+14+16]
- * Lung
- [Thrombosis TGLs = 7-4]
- * Pancreas
- [Adenoma TGLs = 8-17]
- * Pituitary Gland
- * Thymus
- Vacuolization Cytoplasmic
- Nephropathy
- Clear Cell Focus
- Fatty Change
- Bile Duct
- Vein
- Hyperplasia
- Thrombosis
- Arteriole
- Acinus
- Adenoma
- Cyst
- Atrophy
- Minimal
- Mild
- Moderate
- Mild
- Mild
- Minimal
- Minimal
- Marked

PRIMARY CAUSE OF DEATH - Pancreas Acinus Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901865

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
* Lung		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Schwannoma Malignant	
	[Schwannoma Malignant TGLs = 1-14]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Intermed | Hyperplasia | Mild |
| | [Adenoma TGLs = 1-14] | | |
| * Preputial Gland | | Inflammation | Minimal |
| * Testes | Germinal Epith | Atrophy | Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------|----------------|------------------|---------|
| * Epididymis | | Granuloma Sperm | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Testes | Germinal Epith | Atrophy | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 105

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
		Mixed Cell Focus	
	[Clear Cell Focus TGLs = 2-15]		
	[Mixed Cell Focus TGLs = 1-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular		Mineralization	Minimal
* Thymus		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 106

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Endocardium	Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Skin		Ulcer	Marked
		[Ulcer TGLs = 1-14]	
* Spleen	Capsule	Fibrosis	Minimal
		[Fibrosis TGLs = 2-15]	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------------|--------|------------------|---------|
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Prostate | | Inflammation | Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Adenoma | |
| [Adenoma TGLs = 1-14] | | | |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 108

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Liver
- [Clear Cell Focus TGLs = 7-16]
- [Mixed Cell Focus TGLs = 8-17]
- * Lung
- [Fibrous Histiocytoma TGLs = 2,3,4,5,6-3+4+14]
- * Skin
- [Fibrous Histiocytoma TGLs = 1-15]
- * Spleen
- * Thymus
- * Thyroid Gland
- C Cell
- Vacuolization Cytoplasmic
- Cardiomyopathy
- Basophilic Focus
- Clear Cell Focus
- Fatty Change
- Mixed Cell Focus
- Fibrous Histiocytoma
- Fibrous Histiocytoma
- Hematopoietic Cell Proliferation
- Atrophy
- Hyperplasia
- Minimal
- Minimal
- Minimal
- Minimal
- Metastatic (Skin)
- Minimal
- Marked
- Minimal

PRIMARY CAUSE OF DEATH - Skin Fibrous Histiocytoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901872

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

OBSERVATIONS

- | | | | |
|--------------------------|-----------------------------------|------------------|------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Cyst | Mild |
| | | Nephropathy | Minimal |
| | [Cyst TGLs = 2-5] | | |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Lung | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mesenteric | | Hemangiosarcoma | |
| | [Hemangiosarcoma TGLs = 1-6+14] | | |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hyperplasia | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 110

TRT#: 3

SEX: Male

DAY ON TEST: 678

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901873

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 | * Testes | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | |
|-------------------|------------------------------------|----------------------------|
| * Heart | Cardiomyopathy | Mild |
| * Kidney | Nephropathy | Mild |
| * Liver | Clear Cell Focus | |
| | Fatty Change | Minimal |
| * Lung | Carcinoma | Metastatic (Thyroid Gland) |
| * Pituitary Gland | Cyst | Minimal |
| * Spleen | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1-14] | |
| * Thyroid Gland | C Cell | |
| | [Carcinoma TGLs = 2-15] | |
| | Carcinoma | |

PRIMARY CAUSE OF DEATH - Thymus Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901874

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

OBSERVATIONS

- | | | | |
|----------------------|---------------|------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Nose | Olfactory Epi | Degeneration | Mild |
| | | Inflammation | Mild |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901875

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
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Clear Cell Focus	
* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Intermed	Hyperplasia	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 574

DOSE: 500 mg/kg

DISP: Natural Death

HISTO: 0901876

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 | * Testes |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | |
|-----------------|----------------------------------------------------------|----------|
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy | Minimal |
| * Liver | Clear Cell Focus | |
| | Hepatodiaphragmatic Nodule | |
| | [Hepatodiaphragmatic Nodule TGLs = 1-7] | |
| * Lung | Sarcoma | |
| | Note: TGL 2 should be coded lipoma but no code in system | |
| | [Sarcoma TGLs = 2-14] | |
| * Spleen | Hematopoietic Cell Proliferation | Mild |
| * Thymus | Atrophy | Moderate |
| * Thyroid Gland | C Cell Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Lung Sarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 673

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901877

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

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	[Nephropathy TGLs = 2-5+15]		
Lymph Node	Renal	Ectasia	Moderate
	[Ectasia TGLs = 3-16]		
Peripheral Nerve	Axon	Degeneration	Mild
* Skin		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 1-14]		
Spinal Cord	Axon	Degeneration	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 626

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------------------|-------------------------|------------------|---------------|
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Parathyroid Gland | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Prostate | | Inflammation | Minimal |
| * Stomach, Glandular | | Inflammation | Chronic, Mild |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|------------------|---------------------------|----------------------|
| * Adrenal Cortex | Vacuolization Cytoplasmic | Minimal |
| * Kidney | Inflammation | Suppurative, Minimal |
| | Nephropathy | Minimal |
| * Liver | Clear Cell Focus | |
| | Mixed Cell Focus | |
| * Nose | Inflammation | Mild |
| * Thymus | Atrophy | Moderate |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901880

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 Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain		Compression	Mild
* Heart		Cardiomyopathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Minimal
* Stomach, Glandular		Mineralization	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901881

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

OBSERVATIONS

- | | | |
|----------|----------------------------------|---------|
| * Kidney | Nephropathy | Minimal |
| * Liver | Basophilic Focus | |
| * Spleen | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | Atrophy | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901882

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 | * Preputial Gland | * Prostate |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Testes |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|----------------------|-------------------------------|----------------------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Hydronephrosis | Mild |
| | [Hydronephrosis TGLs = 2-5] | | |
| * Liver | | Clear Cell Focus | |
| * Pituitary Gland | Pars Intermed | Hyperplasia | Mild |
| * Salivary Glands | Sublingual GI | Adenoma | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901883

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

OBSERVATIONS

- | | | | |
|-------------------|-----------------------|------------------|----------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Skin | | Ulcer | Moderate |
| | [Ulcer TGLs = 1-14] | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|--------|------------------|----------|
| * Eye | Retina | Atrophy | Moderate |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Stomach, Forestomach | | Ulcer | Minimal |
| * Thymus | | Atrophy | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 567

DOSE: 500 mg/kg

DISP: Natural Death

HISTO: 0901885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Seminal Vesicle
- * Thymus
- Blood Vessel
- * Eye
- * Intestine Small, Duodenum
- * Mammary Gland
- * Pituitary Gland
- * Stomach, Forestomach
- * Thyroid Gland
- * Bone
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Nose
- * Preputial Gland
- * Stomach, Glandular
- * Trachea
- * Brain
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pancreas
- * Salivary Glands
- * Testes
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
[Histiocytic Sarcoma TGLs = 6-18]
- * Bone Marrow
- * Epididymis
- * Harderian Gland
- * Heart
- * Kidney
- * Liver
[Histiocytic Sarcoma TGLs = 3-6+7]
- * Lung
[Histiocytic Sarcoma TGLs = 10-3+4]
- Lymph Node
Renal
Iliac
Mediastinal
[Histiocytic Sarcoma TGLs = 4-16]
[Histiocytic Sarcoma TGLs = 5-17]
[Histiocytic Sarcoma TGLs = 8-20]
- * Lymph Node, Mandibular
[Histiocytic Sarcoma TGLs = 7-19]
- * Lymph Node, Mesenteric
[Histiocytic Sarcoma TGLs = 9-21]
- * Prostate
Inflammation Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 567

DOSE: 500 mg/kg

DISP: Natural Death

HISTO: 0901885

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 1-14]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Histiocytic Sarcoma TGLs = 2-5+15]	Histiocytic Sarcoma	

PRIMARY CAUSE OF DEATH - Spleen Histiocytic Sarcoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------|-------------------------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Brain | | Compression | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Nose | Olfactory Epi | Degeneration | Mild |
| * Parathyroid Gland | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-15] | | |
| * Prostate | | Inflammation | Mild |
| * Skin | | Ulcer | Moderate |
| | [Ulcer TGLs = 1-14] | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901887

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

OBSERVATIONS

- | | | | |
|----------------------|---------------|------------------|----------|
| * Kidney | Renal Tubule | Cyst | Mild |
| [Cyst TGLs = 1-14] | | | |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex [Vacuolization Cytoplasmic TGLs = 3-16] Vacuolization Cytoplasmic Moderate
- * Brain Compression Mild
- * Heart Cardiomyopathy Mild
- * Intestine Large, Rectum Parasite Metazoan Minimal
- * Kidney Inflammation Suppurative, Mild
- Nephropathy Mild
- * Liver Clear Cell Focus
- * Pituitary Gland Pars Distalis Adenoma
- [Adenoma TGLs = 2-15]
- * Prostate Inflammation Minimal
- * Skin Fibroma
- [Fibroma TGLs = 1-14]
- * Thymus Atrophy Marked
- * Thyroid Gland C Cell Hyperplasia Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 393

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901889

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

OBSERVATIONS

- | | | | |
|------------------------|-------------------------------------------|----------------------------------|-------------------|
| * Heart | | Fibrous Histiocytoma | Metastatic (Skin) |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| * Liver | | Fibrous Histiocytoma | Metastatic (Skin) |
| | [Fibrous Histiocytoma TGLs = 4-16] | | |
| * Lung | | Fibrous Histiocytoma | Metastatic (Skin) |
| | [Fibrous Histiocytoma TGLs = 5-3] | | |
| * Pancreas | | Fibrous Histiocytoma | Metastatic (Skin) |
| | [Fibrous Histiocytoma TGLs = 1-14] | | |
| * Skin | | Fibrous Histiocytoma | |
| | [Fibrous Histiocytoma TGLs = 2,8-15+17] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Stomach, Forestomach | | Fibrous Histiocytoma | Metastatic (Skin) |
| | | Ulcer | Mild |
| | [Fibrous Histiocytoma TGLs = 3-6] | | |
| * Stomach, Glandular | | Fibrous Histiocytoma | Metastatic (Skin) |
| * Testes | | Fibrous Histiocytoma | Metastatic (Skin) |
| * Thymus | | Fibrous Histiocytoma | Metastatic (Skin) |
| | [Fibrous Histiocytoma TGLs = 7-3] | | |

PRIMARY CAUSE OF DEATH - Skin Fibrous Histiocytoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------|---------|
| * Harderian Gland | | Hyperplasia | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901891

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 |
| * Lung | * 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 | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-----------------|--------------------------|------------------|----------|
| * Eye | | Cataract | Moderate |
| | [Cataract TGLs = 1-10] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Testes | | Edema | Moderate |
| | [Edema TGLs = 2-11+14] | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901892

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

OBSERVATIONS

- | | | | |
|------------------|--------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------------|---------------------------|---------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Preputial Gland | | Inflammation | Minimal |
| | [Inflammation TGLs = 1,2-14+15] | | |
| * Thymus | | Atrophy | Marked |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|----------|------------------|---------|
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy | Minimal |
| * Liver | Clear Cell Focus | |
| | Fatty Change | Minimal |
| * Thymus | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--------|------------------|------------------|
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| * Lung | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mesenteric | | Ectasia | Moderate |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901896

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Mild
		Mixed Cell Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Ulcer	Moderate
	[Ulcer TGLs = 1-14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901897

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

OBSERVATIONS

- | | | | |
|-------------------|--------|------------------|---------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Preputial Gland | | Inflammation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901898

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 |
| * Kidney | * 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 | * Testes |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------|---------------------------|------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Lung | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|------------------|--------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901900

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

OBSERVATIONS

- | | | | |
|----------------------|---------------|------------------|----------|
| * Eye | Retina | Atrophy | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Renal Tubule | Cyst | Mild |
| [Cyst TGLs = 1-14] | | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Prostate | | Inflammation | Moderate |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 643

DOSE: 500 mg/kg

DISP: Natural Death

HISTO: 0901901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lung |
| * 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 | * Stomach, Glandular | * Testes |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | |
|-----------------------------------|-------------------|---------|
| * Liver | Clear Cell Focus | |
| | Fatty Change | Minimal |
| * Thymus | Thymoma Malignant | |
| [Thymoma Malignant TGLs = 1-14] | | |

PRIMARY CAUSE OF DEATH - Thymus Thymoma Malignant

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901902

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

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|------------------|---------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | [Clear Cell Focus TGLs = 1-14] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hyperplasia | Minimal |
| * Preputial Gland | | Inflammation | Minimal |
| * Prostate | | Inflammation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------|----------------|----------------------------------|---------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| | Follicle | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|-------------------|------------------|----------|
| * Liver | Clear Cell Focus | |
| | Mixed Cell Focus | |
| * Preputial Gland | Inflammation | Minimal |
| * Thymus | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lung |
| * 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 | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-----------------|----------------------------------|------------------|----------|
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 1-14] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | Follicular Cel | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------|----------------------------------------|----------------------|-------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Renal Tubule | Cyst | Mild |
| | | Metaplasia | Lipocyte, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Skin | | Schwannoma Malignant | |
| | [Schwannoma Malignant TGLs = 1,2-14] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901907

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

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|------------------|---------|
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Intermed | Hyperplasia | Mild |
| | Pars Distalis | Hyperplasia | Minimal |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * 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 | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------------------|----------------|------------------|----------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Eye | Retina | Atrophy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Stomach, Glandular | | Mineralization | Mild |
| * Testes | Germinal Epith | Atrophy | Moderate |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901909

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

OBSERVATIONS

- | | | | |
|-------------------|-----------------------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| * Preputial Gland | | Inflammation | Minimal |
| * Testes | | Edema | Moderate |
| | [Edema TGLs = 1-14] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------|--------|------------------------|------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Minimal |
| | | Metaplasia | Osseous, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Lung | | Inflammation | Chronic, Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------------------|-------------------------|------------------|----------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-8] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 615

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------------|---------------|--------------|------------------|
| * Brain | | Compression | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Lung | | Inflammation | Chronic, Minimal |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-14] | | | |
| * Prostate | | Inflammation | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 151

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901914

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart	Endocardium	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Intermed	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901915

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
- * Prostate
- * Salivary Glands
- * Spleen
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder
- * Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Nose
- * Seminal Vesicle
- * Testes
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Skin
- * Thymus

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <ul style="list-style-type: none"> * Kidney | <ul style="list-style-type: none"> Renal Tubule | <ul style="list-style-type: none"> Cyst Nephropathy | <ul style="list-style-type: none"> Mild Minimal |
| <ul style="list-style-type: none"> [Cyst TGLs = 3-5] | | | |
| <ul style="list-style-type: none"> * Liver | | <ul style="list-style-type: none"> Angiectasis Basophilic Focus Clear Cell Focus Fatty Change Hepatodiaphragmatic Nodule Mixed Cell Focus | <ul style="list-style-type: none"> Minimal Minimal |
| <ul style="list-style-type: none"> [Angiectasis TGLs = 2-15] [Hepatodiaphragmatic Nodule TGLs = 1-14] | | | |
| <ul style="list-style-type: none"> * Pituitary Gland | <ul style="list-style-type: none"> Pars Distalis | <ul style="list-style-type: none"> Hyperplasia | <ul style="list-style-type: none"> Minimal |
| <ul style="list-style-type: none"> * Preputial Gland | | <ul style="list-style-type: none"> Inflammation | <ul style="list-style-type: none"> Minimal |
| <ul style="list-style-type: none"> * Stomach, Forestomach | <ul style="list-style-type: none"> Epithelium | <ul style="list-style-type: none"> Hyperplasia | <ul style="list-style-type: none"> Mild |
| <ul style="list-style-type: none"> [Hyperplasia TGLs = 4-16] | | | |
| <ul style="list-style-type: none"> * Thyroid Gland | <ul style="list-style-type: none"> C Cell | <ul style="list-style-type: none"> Hyperplasia | <ul style="list-style-type: none"> Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 153

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - * Heart
 - * Kidney
 - * Liver
 - * Pancreas
 - * Pituitary Gland
 - * Preputial Gland
 - * Prostate
 - * Skin
 - * Thymus
- [Fibroma TGLs = 1-14]
- Hyperplasia
 - Vacuolization Cytoplasmic
 - Cardiomyopathy
 - Nephropathy
 - Clear Cell Focus
 - Fatty Change
 - Atrophy
 - Adenoma
 - Inflammation
 - Inflammation
 - Fibroma
 - Atrophy
- Minimal
 - Minimal
 - Minimal
 - Minimal
 - Minimal
 - Minimal
 - Minimal
 - Minimal
 - Minimal
 - Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 154

TRT#: 5

SEX: Male

DAY ON TEST: 511

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | | |
|------------------|-------------------|----------|
| * Adrenal Cortex | * Adrenal Medulla | * Thymus |
|------------------|-------------------|----------|

OBSERVATIONS

- | | | | |
|---------------------------|---------------|------------------|----------|
| * Brain | | Compression | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | Multiple |
| [Adenoma TGLs = 1,2-14] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 155

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * 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 | * Testes | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------|------------------|
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Lung | Bronchiole | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 156

TRT#: 5

SEX: Male

DAY ON TEST: 618

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901919

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Colon | * 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 | * Testes | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---------------------------|-----------------------------------------------------------------|----------------------------------|---------------------|
| * Adrenal Cortex | | Necrosis | Moderate |
| * Adrenal Medulla | | Necrosis | Moderate |
| * Intestine Large, Cecum | | Ulcer | Mild |
| * Intestine Large, Rectum | | Ulcer | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Suppurative, Marked |
| | [Inflammation TGLs = 1,2,3,4,5,6,7,8-14+15+16+17+18+19+20+21] | | |
| * Lung | | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Glandular | | Ulcer | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

- Liver Inflammation

CONTRIBUTORY CAUSE OF DEATH

- Adrenal Cortex Necrosis

- Adrenal Medulla Necrosis

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 157

TRT#: 5

SEX: Male

DAY ON TEST: 723

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901920

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------|----------------------------------|------------------|----------|
| * Brain | | Compression | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Inflammation | Mild |
| * Intestine Large, Rectum | | Inflammation | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | [Clear Cell Focus TGLs = 2-15] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-16] | | |
| * Preputial Gland | | Inflammation | Minimal |
| * Prostate | | Inflammation | Mild |
| * Seminal Vesicle | | Inflammation | Minimal |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1-14] | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 158

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* 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
* Testes	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLs = 1-14]		
* Brain		Compression	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
		Mixed Cell Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 159

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|---------------|---------------------------|---------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Brain | | Compression | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Prostate | | Inflammation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicle | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 160

TRT#: 5

SEX: Male

DAY ON TEST: 654

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901923

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 | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Glandular | * Testes | * Trachea |

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------------|----------------------------------|-------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Inflammation | Chronic, Moderate |
| | [Inflammation TGLs = 2-5] | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hemangiosarcoma | |
| * Lymph Node, Mesenteric | | | |
| | [Hemangiosarcoma TGLs = 5-14] | | |
| * Preputial Gland | | Inflammation | Minimal |
| * Prostate | | Inflammation | Moderate |
| | [Inflammation TGLs = 3-13] | | |
| * Seminal Vesicle | | Inflammation | Marked |
| | [Inflammation TGLs = 4-13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Stomach, Forestomach | | Cyst | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | | Inflammation | Marked |
| | [Inflammation TGLs = 1-5] | | |

PRIMARY CAUSE OF DEATH - Kidney Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901924

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 | * Kidney | * Lung | * 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 |

MISSING

- * Pituitary Gland

OBSERVATIONS

- | | | |
|-----------------------|------------------|----------|
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| | Fatty Change | Minimal |
| * Testes | Edema | Moderate |
| [Edema TGLs = 1-14] | | |
| * Thymus | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 672

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Brain
 - Compression
 - Granular Cell Tumor Benign
 - Mild
 - [Granular Cell Tumor Benign TGLs = 2-14]
- * Kidney
 - Hydronephrosis
 - Moderate
 - [Hydronephrosis TGLs = 1-5]
- * Lung
 - Inflammation
 - Granulomatous, Minimal
 - [Inflammation TGLs = 4-3+4]
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
 - [Adenoma TGLs = 3-8]
- * Prostate
 - Inflammation
 - Minimal
- * Thymus
 - Atrophy
 - Moderate
- * Thyroid Gland
 - C Cell
 - Hyperplasia
 - Minimal

PRIMARY CAUSE OF DEATH - Brain Granular Cell Tumor Benign
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901927

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
* Kidney	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Vacuolization Cytoplasmic	Minimal
* Heart	Cardiomyopathy	Minimal
* Liver	Clear Cell Focus	
	Mixed Cell Focus	
* Lymph Node, Mesenteric	Ectasia	Moderate
[Ectasia TGLs = 2-15]		
* Nose	Inflammation	Mild
* Skin	Ulcer	Moderate
[Ulcer TGLs = 1-14]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Ulcer	Minimal
* Thymus	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------------------------|----------------------------------|---------------------|
| * Heart | | Carcinoma | Metastatic (Kidney) |
| | | Cardiomyopathy | Mild |
| * Intestine Large, Cecum | | Inflammation | Minimal |
| * Kidney | Transit Epithe | Carcinoma | |
| | | Nephropathy | Mild |
| | [Carcinoma TGLs = 1-14] | | |
| * Liver | | Fatty Change | Mild |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Carcinoma | Metastatic (Kidney) |
| | [Alveolar/Bronchiolar Adenoma TGLs = 2-15] | | |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Intermed | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901929

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

OBSERVATIONS

- | | | | |
|--------------------------|--------------------------------------|----------------------------------|-------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | [Fatty Change TGLs = 3-6+7+16] | Fatty Change | Minimal |
| * Lung | | Inflammation | Chronic, Minimal |
| | | Metaplasia | Osseous, Minimal |
| * Lymph Node, Mandibular | | Fibrous Histiocytoma | Metastatic (Skin) |
| * Skin | | Fibrous Histiocytoma | |
| | [Fibrous Histiocytoma TGLs = 2-15] | Keratoacanthoma | |
| | [Keratoacanthoma TGLs = 1-14] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | Follicle | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|---------------|---------------------------|----------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Vacuolization Cytoplasmic | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| * Lymph Node, Mesenteric | | Ectasia | Moderate |
| [Ectasia TGLs = 2-14] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| [Adenoma TGLs = 1-8] | | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901931

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

OBSERVATIONS

- | | | | |
|-------------------|----------------|---------------------------|---------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Pituitary Gland | | Cyst | Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 517

DOSE: 1000 mg/kg

DISP: Natural Death

HISTO: 0901932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------|--------------|--------------------|----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Inflammation | Suppurative, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Spleen | Lymph Follic | Atrophy | Minimal |
| * Thymus | | Lymphoma Malignant | |

[Lymphoma Malignant TGLs = 2-14]

PRIMARY CAUSE OF DEATH

- Thymus Lymphoma Malignant

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|----------------------|---------------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Harderian Gland | | Hyperplasia | Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | Moderate |
| | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | [Cyst TGLs = 1-14] | | |
| * Lung | | Inflammation | Chronic, Minimal |
| | | Metaplasia | Osseous, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Thymus | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901934

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Chronic, Mild
		Metaplasia	Osseous, Mild
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
		Mixed Cell Focus	
* Lung		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1-14]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901935

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
- * Spleen
- * Stomach, Forestomach
- * Testes
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Heart
 - * Kidney [Adenoma TGLs = 1-14]
 - * Liver
 - * Lung
 - * Pituitary Gland
 - * Stomach, Glandular [Inflammation TGLs = 2-15]
 - * Thymus
 - * Thyroid Gland
- | | | | |
|--|--------------------|------------------------------------------------------|-------------------------------|
| | Renal Tubule | Cardiomyopathy
Adenoma | Minimal |
| | | Clear Cell Focus
Fatty Change
Mixed Cell Focus | Minimal |
| | Bronchiole | Hyperplasia | Minimal |
| | Pars Distalis | Hyperplasia | Mild |
| | Epithelium, Glands | Hyperplasia
Inflammation | Moderate
Chronic, Moderate |
| | | Atrophy | Mild |
| | Follicular Cel | Adenoma | |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901936

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

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|------------------|---------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | | Inflammation | Granulomatous, Mild |
| | [Inflammation TGLs = 1-14] | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|--------|------------------|------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| * Stomach, Forestomach | | Inflammation | Chronic, Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901938

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

OBSERVATIONS

- | | | | |
|-----------------|--------|--------------------|---------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Thymus | | Lymphoma Malignant | |
| * Thyroid Gland | C Cell | Adenoma | |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 605

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * 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 | * Testes | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--------------|-----------------------------------------|-------------------------|------------------|
| Blood Vessel | Aorta | Mineralization | Moderate |
| * Heart | | Cardiomyopathy | Moderate |
| | | Mineralization | Moderate |
| * Lung | | Inflammation | Chronic, Minimal |
| * Nose | | Inflammation | Mild |
| * Skin | | Squamous Cell Papilloma | |
| | [Squamous Cell Papilloma TGLs = 1-14] | | |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Heart Mineralization

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901940

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

OBSERVATIONS

- | | | | |
|----------------------|---------------|------------------|---------|
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | Renal Tubule | Cyst | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Prostate | | Inflammation | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901941

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | |
|--------------------------|----------------------------------|----------|
| * Kidney | Nephropathy | Minimal |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| * Lymph Node, Mesenteric | Ectasia | Moderate |
| [Ectasia TGLs = 1-14] | | |
| * Nose | Inflammation | Minimal |
| * Preputial Gland | Inflammation | Minimal |
| * Prostate | Inflammation | Minimal |
| * Spleen | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 387

DOSE: 1000 mg/kg

DISP: Dosing Accident

HISTO: 0901942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|------------|------------------|---------|
| * Liver | Basophilic Focus | |
| * Lung | Foreign Body | Marked |
| * Prostate | Inflammation | Minimal |
| * Thymus | Atrophy | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901943

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

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Thymus | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 608

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Vacuolization Cytoplasmic	Minimal
* Brain		Compression	Marked
* Kidney		Inflammation	Suppurative, Moderate
		Nephropathy	Minimal
* Liver		Fatty Change	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-8]		
* Prostate		Inflammation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901945

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

OBSERVATIONS

- | | | | |
|------------------|-------------------------|---------------------------|----------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|----------|------------------|---------|
| * Heart | Cardiomyopathy | Mild |
| * Kidney | Nephropathy | Minimal |
| * Liver | Clear Cell Focus | |
| | Mixed Cell Focus | |
| * Thymus | Atrophy | Marked |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901950

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 Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---------------------|------------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| * Lung | Bronchiole | Hyperplasia | Minimal |
| * Parathyroid Gland | | Hyperplasia | Mild |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901951

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

OBSERVATIONS

- | | | | |
|------------------|--------|---------------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Mixed Cell Focus | |
| * Prostate | | Inflammation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901952

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 | * Lung | * 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 |
| * Testes | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|----------------------|------------------------------------|--------------------|----------------------|
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Inflammation | Suppurative, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Thymus | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1-14] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901955

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

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|------------------|------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 1-14] | | |
| * Lung | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Intermed | Adenoma | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* 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
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
		Mixed Cell Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|----------------------------------|----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Inflammation | Suppurative, Minimal |
| | | Nephropathy | Mild |
| * Liver | | Angiectasis | Minimal |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-15] | | |
| * Prostate | | Inflammation | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | Follicle | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 501

DOSE: 1000 mg/kg

DISP: Dosing Accident

HISTO: 0901960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lung |
| * 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 | * Stomach, Glandular | * Testes |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | |
|------------------------------------------------------------------------------------------------------------------------|------------------|--------|
| * Liver | Clear Cell Focus | |
| * Lung | | |
| Note: Bacterial colonies in septa and golden colored oil-like material in the alveoli; compatible with dosing accident | | |
| * Thymus | Atrophy | Marked |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901962

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

OBSERVATIONS

- | | | |
|----------|------------------|----------|
| * Kidney | Nephropathy | Minimal |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| | Fatty Change | Minimal |
| * Skin | Ulcer | Moderate |

[Ulcer TGLs = 1-14]

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 534

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Heart
- * Kidney
- * Pancreas
- Skeletal Muscle
 - [Rhabdomyosarcoma TGLs = 1-14]
- * Spleen
- * Stomach, Glandular
- * Thymus
- * Thyroid Gland
- C Cell
- Hyperplasia
- Vacuolization Cytoplasmic
- Cardiomyopathy
- Inflammation
- Atrophy
- Rhabdomyosarcoma
- Hematopoietic Cell Proliferation
- Mineralization
- Atrophy
- Hyperplasia
- Minimal
- Minimal
- Minimal
- Suppurative, Moderate
- Mild
- Minimal
- Mild
- Moderate
- Minimal

PRIMARY CAUSE OF DEATH - Kidney Inflammation

CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Rhabdomyosarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 201

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901964

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

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------|------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | | Metaplasia | Osseous, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | Multiple |
| | Pars Distalis | Hyperplasia | Minimal |
| | Pars Intermed | Hyperplasia | Mild |
| * Prostate | | Inflammation | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 202

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|----------------|------------------|----------|
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Lymph Node, Mesenteric | | Ectasia | Moderate |
| [Ectasia TGLs = 1-14] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicular Cel | Adenoma | |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 203

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901966

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, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * 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 |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-----------------------------|------------------------------|----------------------------------|---------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Small, Duodenum | | Diverticulum | Moderate |
| | | Metaplasia | Osseous, Mild |
| | [Diverticulum TGLs = 1-14] | | |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Testes | Interstit Cell | Hyperplasia | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 204

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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
* Kidney	* Lung	* 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

* Harderian Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
		Mixed Cell Focus	
* Nose	Goblet Cell	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
* Skin		Ulcer	Moderate
[Ulcer TGLs = 1-14]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Germinal Epith	Atrophy	Moderate
	Germinal Epith	Mineralization	Minimal
[Atrophy TGLs = 2-15]			
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 206

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------------|---------------|------------------|----------|
| * Brain | | Compression | Moderate |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-14] | | | |
| * Prostate | | Inflammation | Minimal |
| * Thymus | | Atrophy | Moderate |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 207

TRT#: 7

SEX: Male

DAY ON TEST: 531

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular
- * Salivary Glands

OBSERVATIONS

- * Pituitary Gland
- * Preputial Gland
- * Skin
- [Fibrosarcoma TGLs = 1-14]
- * Spleen
- * Thymus
- Cyst
- Inflammation
- Fibrosarcoma
- Hematopoietic Cell Proliferation
- Atrophy
- Minimal
- Minimal
- Minimal
- Marked

PRIMARY CAUSE OF DEATH - Skin Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 209

TRT#: 7

SEX: Male

DAY ON TEST: 447

DOSE: 1000 mg/kg

DISP: Natural Death

HISTO: 0901972

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
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testes
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Bone Marrow Lymphoma Malignant
- * Heart Lymphoma Malignant
- * Kidney Lymphoma Malignant
- * Liver Lymphoma Malignant
- * Lung Centrilobular Necrosis Moderate
- [Necrosis TGLs = 5-3+4]
- Vein Necrosis Moderate
- Lymph Node Pancreatic Lymphoma Malignant
- Mediastinal Lymphoma Malignant
- [Lymphoma Malignant TGLs = 2-15]
- [Lymphoma Malignant TGLs = 4-17]
- * Lymph Node, Mandibular Lymphoma Malignant
- [Lymphoma Malignant TGLs = 1-14]
- * Lymph Node, Mesenteric Lymphoma Malignant
- * Nose Inflammation Mild
- * Preputial Gland Inflammation Minimal
- * Spleen Lymphoma Malignant
- [Lymphoma Malignant TGLs = 3-16]
- * Thymus Lymphoma Malignant

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 210

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|-----------------------------------------|-------------------------|----------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Brain | | Gliosis | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Renal Tubule | Cyst | Mild |
| | | Nephropathy | Minimal |
| | [Cyst TGLs = 3-16] | | |
| * Liver | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | Bronchiole | Hyperplasia | Minimal |
| * Pituitary Gland | | Cyst | Minimal |
| * Skin | | Ulcer | Moderate |
| | [Ulcer TGLs = 1,2-14+15] | | |
| * Stomach, Forestomach | | Squamous Cell Papilloma | |
| | [Squamous Cell Papilloma TGLs = 4-17] | | |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 211

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901974

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Cyst	Mild
	Bile Duct	Hyperplasia	Minimal
	[Cyst TGLs = 1-14]		
* Lung	Bronchiole	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Mild
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 212

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|---------------|------------------|----------|
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2-15] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Prostate | | Inflammation | Minimal |
| * Skin | | Ulcer | Moderate |
| [Ulcer TGLs = 1-14] | | | |
| * Thymus | | Atrophy | Moderate |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 213

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901976

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 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 | * Testes | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------|---------------------------|------------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Brain | | Compression | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Inflammation | Granulomatous, Minimal |
| | [Inflammation TGLs = 2-3+4] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Intermed | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 214

TRT#: 7

SEX: Male

DAY ON TEST: 594

DOSE: 1000 mg/kg

DISP: Dosing Accident

HISTO: 0901977

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 |
| * Kidney | * Lung | * 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 |
| * Stomach, Glandular | * Testes | * Thyroid Gland | * Urinary Bladder |

OBSERVATIONS

- | | | |
|--------------------------------------------------------------------------------------------|---------------------------|----------|
| * Adrenal Cortex | Vacuolization Cytoplasmic | Mild |
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| * Lung | | |
| Note: Note gold-staining material (interpreted to be dose of test article) in lung alveoli | | |
| * Thymus | Atrophy | Moderate |
| * Trachea | Perforation | Moderate |

[Perforation TGLs = 3-14]

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 215

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901978

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

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Suppurative, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-15]			
* Prostate		Inflammation	Mild
* Skin		Ulcer	Moderate
[Ulcer TGLs = 1-14]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 216

TRT#: 7

SEX: Male

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901979

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

OBSERVATIONS

- | | | | |
|-------------------|------------------------|---------------------------|----------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Brain | | Compression | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | Multiple |
| | [Adenoma TGLs = 1-8] | | |
| * Thymus | | Atrophy | Moderate |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 217

TRT#: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|----------|------------------|----------|
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy | Minimal |
| * Liver | Clear Cell Focus | |
| * Thymus | Atrophy | Moderate |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 218

TRT#: 7

SEX: Male

DAY ON TEST: 672

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901981

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

OBSERVATIONS

- | | | | |
|-----------------|--------------------------------------|----------------------------------|----------|
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLs = 2-15] | | |
| * Skin | | Schwannoma Malignant | |
| | [Schwannoma Malignant TGLs = 1-14] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Skin Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 221

TRT#: 2

SEX: Female

DAY ON TEST: 364

DOSE: 0 mg/kg

DISP: Dosing Accident

HISTO: 0901984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * 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 | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|----------------------------|------------------|---------|
| * Esophagus | | Perforation | Marked |
| | [Perforation TGLs = 1-3] | | |
| * Liver | | Basophilic Focus | |
| * Lung | Bronchiole | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 222

TRT#: 2

SEX: Female

DAY ON TEST: 656

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|-------------------------|---------------|------------------|----------|
| * Brain | | Compression | Moderate |
| * Liver | | Basophilic Focus | |
| * Pituitary Gland | Bile Duct | Hyperplasia | Minimal |
| [Adenoma TGLs = 1-13] | Pars Distalis | Adenoma | |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 223

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901986

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|----------------------------|---------------|----------------------------------|-----------------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Mammary Gland | | Cyst | Mild |
| [Cyst TGLs = 1-12] | | | |
| * Pancreas | Duct | Cyst | Moderate |
| [Cyst TGLs = 2-13] | | | |
| * Pituitary Gland | | Angiectasis | Mild |
| | Pars Distalis | Hyperplasia | Mild |
| [Angiectasis TGLs = 3-8] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 224

TRT#: 2

SEX: Female

DAY ON TEST: 726

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Clitoral Gland
- * Heart
- * Liver
- * Mammary Gland
- [Adenoma TGLs = 2,3-14+15]
- * Ovary
- * Pituitary Gland
- [Adenoma TGLs = 4-16]
- * Skin
- [Trichoepithelioma TGLs = 1-13]
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Endocardium
- Pars Distalis
- Bilateral, C Cell
- C Cell
- Endometrium
- Inflammation
- Hyperplasia
- Basophilic Focus
- Clear Cell Focus
- Adenoma
- Cyst
- Cyst
- Adenoma
- Trichoepithelioma
- Hematopoietic Cell Proliferation
- Hyperplasia
- Adenoma
- Hyperplasia
- Hyperplasia
- Inflammation
- Minimal
- Mild
- Multiple
- Mild
- Mild
- Minimal
- Mild
- Minimal
- Minimal
- Cystic, Minimal
- Suppurative, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 225

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901988

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|----------------------|-----------------------------|----------------------------------|---------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Intermed | Adenoma | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Glandular | | Inflammation | Chronic, Mild |
| | [Inflammation TGLs = 1-6] | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 226

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901989

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------------|---------------|------------------|-------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Adenoma | |
| [Adenoma TGLs = 1-15] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| * Uterus | | Dilatation | Minimal |
| | | Inflammation | Suppurative, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 227

TRT#: 2

SEX: Female

DAY ON TEST: 364

DOSE: 0 mg/kg

DISP: Dosing Accident

HISTO: 0901990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Harderian Gland
- * Heart
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Kidney
- * Lung
- * Mammary Gland
- * Nose
- * Salivary Glands
- * Skin
- * Stomach, Glandular
- * Thyroid Gland
- * Uterus
- Blood Vessel
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pancreas
- * Spleen
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Esophagus
 - Inflammation Mild
 - Perforation Mild
 - [Perforation TGLs = 1-13]
- * Intestine Large, Rectum
 - Parasite Metazoan Minimal
- * Liver
 - Basophilic Focus
- Mesentery
 - Fat
 - Necrosis Mild
 - [Necrosis TGLs = 2-14]
- * Ovary
 - Cyst Mild
 - [Cyst TGLs = 3-15]
- * Pituitary Gland
 - Pars Distalis
 - Adenoma
 - [Adenoma TGLs = 4-16]
- * Thymus
 - Atrophy Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 228

TRT#: 2

SEX: Female

DAY ON TEST: 668

DOSE: 0 mg/kg

DISP: Natural Death

HISTO: 0901991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|------------------------|-----------------------------|------------------|-------------------|
| * Brain | | Compression | Moderate |
| * Kidney | | Inflammation | Suppurative, Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| * Mammary Gland | | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 1-13] | | |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-14] | | |
| * Stomach, Forestomach | | Inflammation | Chronic, Mild |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 229

TRT#: 2

SEX: Female

DAY ON TEST: 464

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0901992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|------------------------|----------------|------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Brain | | Compression | Mild |
| * Liver | | Basophilic Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | Follicular Cel | Adenoma | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 230

TRT#: 2

SEX: Female

DAY ON TEST: 364

DOSE: 0 mg/kg

DISP: Dosing Accident

HISTO: 0901993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|-----------------|-----------------------------|--------------|---------|
| * Esophagus | | Perforation | |
| | [Perforation TGLs = 1-13] | | |
| * Nose | | Inflammation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Trachea | | Inflammation | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 233

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901996

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 | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|--------|----------------------------------|------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| * Lung | | Inflammation | Chronic, Minimal |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | | Cyst | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 234

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------|-----------------------|-----------------------------|
| * Adrenal Cortex | | Carcinoma | |
| | | Hyperplasia | Mild |
| | [Carcinoma TGLs = 4-13] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Bile Duct | Mild |
| | | Bile Duct | Minimal |
| | [Cyst TGLs = 5-16] | Mixed Cell Focus | |
| * Lung | | Carcinoma | Metastatic (Adrenal Cortex) |
| | [Carcinoma TGLs = 7-3+4] | | |
| * Mammary Gland | | Adenoma | |
| | [Adenoma TGLs = 1-14] | | |
| * Ovary | | Tubulostromal Adenoma | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 3-8] | | |
| * Skin | | Hemangiosarcoma | |
| | [Hemangiosarcoma TGLs = 2-15] | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Dilatation | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 234

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901997

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLs = 6-11]

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 235

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901998

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-----------------|-------------|----------------------------------|-----------------|
| * Liver | | Basophilic Focus | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 236

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0901999

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|---------------------------|--------|----------------------------------|---------|
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | | Papilloma | |
| [Papilloma TGLs = 1-15] | | | |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 238

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902001

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
- * Kidney
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Spleen
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Ovary
- * Skin
- * Trachea

OBSERVATIONS

- * Brain
- * Liver
- * Pituitary Gland
- [Adenoma TGLs = 3-14]
- * Thymus
- * Thyroid Gland
- * Uterus
- [Hyperplasia TGLs = 2-13]
- Compression
- Basophilic Focus
- Clear Cell Focus
- Adenoma
- Pars Distalis
- Atrophy
- Adenoma
- Hyperplasia
- Hyperplasia
- Mild
- Minimal
- Mild
- Cystic, Moderate

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 239

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902002

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
- * Stomach, Forestomach
- * Stomach, Glandular
- * Uterus
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Salivary Glands
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Skin
- * Urinary Bladder

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Liver
 - Basophilic Focus
 - Mixed Cell Focus
- * Lung
 - Inflammation
 - Granulomatous, Minimal
- [Inflammation TGLs = 2-4]
- * Nose
 - Inflammation
 - Mild
- * Ovary
 - Tubulostromal Adenoma
- * Pancreas
 - Atrophy
 - Minimal
- * Pituitary Gland
 - Pars Intermed
 - Adenoma
- * Spleen
 - Hematopoietic Cell Proliferation
 - Minimal
- * Thymus
 - Lymphoma Malignant
- [Lymphoma Malignant TGLs = 1-13]
- * Thyroid Gland
 - C Cell
 - Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 240

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902003

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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 241

TRT#: 2

SEX: Female

DAY ON TEST: 545

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Pancreas
- * Spleen
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Forestomach
- * Uterus
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Stomach, Glandular
- * Bone Marrow
- * Harderian Gland
- * Intestine Small, Duodenum
- * Kidney
- * Nose
- * Skin
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Brain
 - [Compression TGLs = 3-9]
- * Heart
- * Liver
- * Mammary Gland
 - [Cyst TGLs = 4-14]
- * Ovary
 - [Cyst TGLs = 2-13]
- * Pituitary Gland
 - [Adenoma TGLs = 1-8]
- * Thymus
- * Thyroid Gland
- Angiectasis
- Compression
- Cardiomyopathy
- Basophilic Focus
- Fatty Change
- Cyst
- Cyst
- Adenoma
- Atrophy
- Hyperplasia
- Mild
- Moderate
- Minimal
- Mild
- Mild
- Mild
- Minimal
- Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 242

TRT#: 2

SEX: Female

DAY ON TEST: 545

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|----------------------------------|----------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Brain | | Compression | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thymus | | Atrophy | Mild |
| Vagina | | Leiomyoma | |
| | | Necrosis | Moderate |
| | [Leiomyoma TGLs = 1-13] | | |

PRIMARY CAUSE OF DEATH - Vagina Leiomyoma

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 243

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Kidney | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|----------------------------|---------------|----------------------------------|-----------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| | | Vacuolization Cytoplasmic | Minimal |
| * Clitoral Gland | | Inflammation | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Pituitary Gland | Pars Intermed | Hyperplasia | Mild |
| [Hyperplasia TGLs = 1-8] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902007

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, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Stomach, Forestomach
- * Stomach, Glandular
- * Uterus
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Nose
- * Salivary Glands
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Ovary
- * Skin
- * Urinary Bladder

OBSERVATIONS

- * Liver
 - Basophilic Focus
 - Clear Cell Focus
 - Hepatocellular Adenoma
 - [Hepatocellular Adenoma TGLs = 2-7]
- * Mammary Gland
 - Fibroadenoma
 - [Fibroadenoma TGLs = 1-15]
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia
- * Spleen
 - Hematopoietic Cell Proliferation
 - Moderate
- * Thymus
 - Atrophy
 - Mild
- * Thyroid Gland
 - Bilateral, Follicular Cel
 - C Cell
 - Adenoma
 - Hyperplasia
 - Minimal
 - [Adenoma TGLs = 3-14]

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 245

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902008

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------------------|---------------|----------------------------------|--------------|
| * Adrenal Cortex | | Angiectasis | Minimal |
| * Liver | | Basophilic Focus | |
| | | Mixed Cell Focus | |
| * Ovary | Bilateral | Cyst | Mild |
| [Cyst TGLs = 1-11] | | | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 246

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|--------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|---------------------------|------------------------------|--------------------------------------|--------------------|
| * Eye | Optic Nerve | Atrophy
Degeneration | Moderate
Marked |
| | [Degeneration TGLs = 1-13] | | |
| * Intestine Large, Rectum | | Parasite Metazoan | Minimal |
| * Intestine Small, Ileum | | Parasite Metazoan | Minimal |
| * Liver | | Basophilic Focus
Clear Cell Focus | |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 3-14] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 247

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------|----------------------------------|-----------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Pituitary Gland | Bile Duct | Hyperplasia | Minimal |
| | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 1-8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 2-13] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 248

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|------------------|-------------|----------------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Heart | Endocardium | Hyperplasia | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 249

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902012

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------------|-------------|------------------|-------------------|
| * Liver | | Basophilic Focus | |
| * Stomach, Forestomach | | Ulcer | Moderate |
| * Stomach, Glandular | | Leiomyosarcoma | |
| [Leiomyosarcoma TGLs = 4-16] | | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Adenomyosis | Moderate |
| | | Carcinoma | |
| | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Inflammation | Suppurative, Mild |
| [Carcinoma TGLs = 1,2-13+14] | | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 253

TRT#: 2

SEX: Female

DAY ON TEST: 725

DOSE: 0 mg/kg

DISP: Natural Death

HISTO: 0902016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|----------------|------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| Blood Vessel | | Mineralization | Marked |
| * Heart | Myocardium | Mineralization | Moderate |
| * Kidney | Renal Tubule | Necrosis | Moderate |
| * Liver | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 2-14] | | |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Kidney Renal Tubule Necrosis

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 254

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Capsule	Fibrosis	Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 255

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Brain	Meninges	Inflammation	Acute, Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Ovary		Inflammation	Acute, Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	[Adenoma TGLs = 1-8]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 256

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|----------------------|-----------------------------------|----------------------------------|----------|
| * Adrenal Cortex | | Angiectasis | Moderate |
| | [Angiectasis TGLs = 3-8] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | [Mixed Cell Focus TGLs = 4-15] | Mixed Cell Focus | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-13+14] | | |
| * Pituitary Gland | Pars Intermed | Adenoma | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 257

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---------------------------|------------------------------|----------------------------------|----------|
| * Heart | | Congestion | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-14] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 258

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
* Ovary		Cyst	Mild
	[Cyst TGLs = 1-13]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Trachea		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 259

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902022

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 |
| * Mammary Gland | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|-------------------|------------------------|--------------------|--------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| | | Degeneration | Cystic, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| * Nose | | Inflammation | Mild |
| * Pancreas | Duct | Cyst | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-8] | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 260

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902023

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 | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|----------------------|-----------|-----------------------|---------|
| * Kidney | Arteriole | Cyst | Mild |
| [Cyst TGLs = 1-5] | | | |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Mild |
| * Ovary | | Tubulostromal Adenoma | |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 261

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902024

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------|---------------|----------------------------------|-------------------|
| * Adrenal Cortex | | Angiectasis | Moderate |
| * Liver | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hyperplasia | Minimal |
| | Pars Intermed | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Inflammation | Suppurative, Mild |

[Hyperplasia TGLs = 1-14]

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 264

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902027

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-----------------|----------------------------------|------------------|---------|
| * Liver | | Angiectasis | Minimal |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| | [Angiectasis TGLs = 2,3-14+15] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 1-13] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 265

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902028

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 |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------|----------------------------------|----------|
| * Adrenal Cortex | | Angiectasis | Minimal |
| | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Mild |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | [Angiectasis TGLs = 3-14] | | |
| * Mammary Gland | | Adenoma | |
| | [Adenoma TGLs = 1-13] | | |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 267

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902030

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 | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------------|---------------|----------------------------------|--------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Mammary Gland | | Adenoma | |
| [Adenoma TGLs = 1-13] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-8] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 268

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * 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 | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|------------------|------------------|
| * Brain | Hippocampus | Necrosis | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-8] | | | |
| * Thymus | | Atrophy | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLs = 1-14] | | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 269

TRT#: 2

SEX: Female

DAY ON TEST: 655

DOSE: 0 mg/kg

DISP: Natural Death

HISTO: 0902032

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 | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|------------------|-------------------|
| * Kidney | | Inflammation | Chronic, Moderate |
| | [Inflammation TGLs = 2-14] | | |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Thymus | | Atrophy | Marked |
| * Urinary Bladder | | Inflammation | Moderate |
| | [Inflammation TGLs = 1-13] | | |

PRIMARY CAUSE OF DEATH - Urinary Bladder Inflammation

CONTRIBUTORY CAUSE OF DEATH - Kidney Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 271

TRT#: 2

SEX: Female

DAY ON TEST: 604

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Skin | * Stomach, Forestomach | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|----------------------|--------------------------------------|-------------------------------------|--------------------|
| * Brain | | Compression
Meningioma Malignant | Marked |
| | [Compression TGLs = 1-9] | | |
| | [Meningioma Malignant TGLs = 4-14] | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| * Lung | | Meningioma Malignant | Metastatic (Brain) |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Salivary Glands | Duct | Hyperplasia | Mild |
| | Duct | Metaplasia | Squamous, Mild |
| * Spleen | Lymph Follic | Atrophy | Mild |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | [Hyperplasia TGLs = 3-13] | | |

PRIMARY CAUSE OF DEATH - Brain Meningioma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 272

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- * Uterus
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Thymus
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Nose
- * Skin
- * Trachea
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Islets, Pancreatic
- * Ovary
- * Stomach, Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
- * Intestine Small, Duodenum
[Leiomyosarcoma TGLs = 3-14]
- * Kidney
- * Liver
- [Hepatodiaphragmatic Nodule TGLs = 2-6]
- * Lung
- * Mammary Gland
[Fibroadenoma TGLs = 1-13]
- * Pancreas
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- Angiectasis
- Leiomyosarcoma
- Nephropathy
- Basophilic Focus
- Clear Cell Focus
- Hepatodiaphragmatic Nodule
- Mixed Cell Focus
- Hyperplasia
- Fibroadenoma
- Atrophy
- Hyperplasia
- Hematopoietic Cell Proliferation
- Adenoma
- Mild
- Minimal
- Mild
- Moderate
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 273

TRT#: 2

SEX: Female

DAY ON TEST: 546

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|------------------------|-------------------------|-------------------|-------------------|
| * Brain | | Compression | Moderate |
| * Kidney | | Cyst | Mild |
| | | Inflammation | Suppurative, Mild |
| | [Cyst TGLs = 2-14] | | |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-13] | | |
| * Stomach, Forestomach | | Inflammation | Chronic, Mild |
| * Thymus | | Thymoma Malignant | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Thymus Thymoma Malignant

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 274

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 1-8]			
* Stomach, Glandular		Mineralization	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hyperplasia	Moderate
	C Cell	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 275

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902038

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 | * Lung |
| * Lymph Node, Mandibular | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|-----------------------------------|---------------|----------------------------------|----------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lymph Node, Mesenteric | | Hemangiosarcoma | |
| [Hemangiosarcoma TGLs = 1-6+14] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | Pars Intermed | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 276

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * 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 | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|------------------------|---------------|-------------------------|----------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| | | Pheochromocytoma Benign | |
| * Brain | | Compression | Moderate |
| * Clitoral Gland | | Inflammation | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Thymus | | Atrophy | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 277

TRT#: 2

SEX: Female

DAY ON TEST: 662

DOSE: 0 mg/kg

DISP: Natural Death

HISTO: 0902040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|------------------|----------|
| * Brain | | Compression | Moderate |
| * Liver | | Fatty Change | Mild |
| | | Mixed Cell Focus | |
| | [Fatty Change TGLs = 2-6+7+14] | | |
| * Nose | | Inflammation | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-13] | | |
| * Spleen | Lymph Follic | Atrophy | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| | Follicle | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 278

TRT#: 2

SEX: Female

DAY ON TEST: 548

DOSE: 0 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902041

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
- * Skin
- * Stomach, Forestomach
- * Thyroid Gland
- * Trachea
- * Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Parathyroid Gland
- * Stomach, Glandular
- * Uterus
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Thymus

OBSERVATIONS

- * Adren Cortex
 - Note: One adrenal cortex missing
- * Adren Medulla
 - Note: One adrenal medulla was missing
- * Liver
 - Basophilic Focus
 - Mixed Cell Focus
- * Lung
 - Granulosa Cell Tumor Malignant
 - Inflammation
- * Nose
 - Granulosa Cell Tumor Malignant
- * Ovary
 - [Granulosa Cell Tumor Malignant TGLs = 1-13]
 - Metastatic (Ovary)
 - Minimal
- * Pancreas
 - [Granulosa Cell Tumor Malignant TGLs = 2,3-14+15]
 - Granulosa Cell Tumor Malignant
 - Metastatic (Ovary)
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia
 - Moderate
- * Spleen
 - Hematopoietic Cell Proliferation
 - Marked
- * Urinary Bladder
 - Granulosa Cell Tumor Malignant
 - Metastatic (Ovary)

PRIMARY CAUSE OF DEATH - Ovary Granulosa Cell Tumor Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 280

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: 0 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|-------------------|---------------------|
| * Adrenal Medulla | * Parathyroid Gland |
|-------------------|---------------------|

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------|----------------------------------|-------------------|
| * Adrenal Cortex | | Angiectasis | Moderate |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Cyst | Mild |
| | | Eosinophilic Focus | |
| | [Cyst TGLs = 2-6] | | |
| * Ovary | | Cyst | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 1-13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Inflammation | Suppurative, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 281

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902044

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 | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------|----------------------------------|-----------------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | Bronchiole | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 1-13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902045

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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Kidney		Infarct	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Dilatation	Moderate

[Dilatation TGLs = 1-13]

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 283

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|----------------------------------|-------------------|
| * Brain | | Compression | Moderate |
| * Kidney | | Inflammation | Suppurative, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Ovary | | Cyst | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-14] | | |
| * Skin | | Sarcoma | |
| | [Sarcoma TGLs = 1-13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902047

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------|------------------|--------------|
| * Heart | Endocardium | Hyperplasia | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Pituitary Gland | Bile Duct | Hyperplasia | Minimal |
| | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 1-13] | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902048

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 |
| * Kidney | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|----------------------|----------------------------------------|------------------------|------------------|
| * Clitoral Gland | | Inflammation | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatocellular Adenoma | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Hepatocellular Adenoma TGLs = 1-13] | Mixed Cell Focus | |
| * Stomach, Glandular | | Inflammation | Chronic, Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 652

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Clitoral Gland
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Kidney
- * Lung
- * Nose
- * Pancreas
- * Skin
- * Spleen
- * Trachea
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Forestomach
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Stomach, Glandular

OBSERVATIONS

- * Brain
- * Heart
- * Liver
- * Mammary Gland
- [Cyst TGLs = 3-13]
- * Ovary
- [Cyst TGLs = 1-11]
- * Pituitary Gland
- [Adenoma TGLs = 2-8]
- * Thymus
- * Thyroid Gland
- * Uterus
- Bile Duct
- Pars Distalis
- C Cell
- Endometrium
- Compression
- Cardiomyopathy
- Basophilic Focus
- Clear Cell Focus
- Eosinophilic Focus
- Fatty Change
- Hyperplasia
- Cyst
- Adenoma
- Atrophy
- Hyperplasia
- Hyperplasia
- Moderate
- Minimal
- Minimal
- Minimal
- Mild
- Mild
- Minimal
- Minimal
- Cystic, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902050

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|----------------------------------|-------------------|
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| * Uterus | | Carcinoma | |
| | | Inflammation | Suppurative, Mild |
| | [Carcinoma TGLs = 2-11] | | |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Salivary Glands |
| * Skin | * Spleen | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|------------------------|-------------------------|------------------|------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Brain | | Compression | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| * Pituitary Gland | Bile Duct | Hyperplasia | Minimal |
| | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-13] | | |
| * Stomach, Forestomach | | Inflammation | Chronic, Mild |
| * Stomach, Glandular | | Inflammation | Chronic, Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 383

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902052

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 | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|----------|---------------------------|----------------------------------|-----------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Nose | | Inflammation | Minimal |
| * Ovary | | Cyst | Minimal |
| | [Cyst TGLs = 2-14] | | |
| * Skin | Sebaceous GI | Carcinoma | |
| | [Carcinoma TGLs = 1-13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Skin Sebaceous GI Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 355

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902053

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|---------------------------|-----------|-------------------|---------|
| * Intestine Large, Rectum | | Parasite Metazoan | Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Spleen | Red Pulp | Atrophy | Mild |
| [Atrophy TGLs = 1-5] | | | |
| * Thymus | | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 291

TRT#: 4

SEX: Female

DAY ON TEST: 624

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Blood Vessel | * Bone | * Bone Marrow | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|-------------------------|---------------|----------------------------------|---------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Brain | | Compression | Marked |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Mammary Gland | | Adenoma | |
| [Adenoma TGLs = 1-13] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-14] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 292

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Urinary Bladder
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Ovary
- * Stomach, Forestomach
- * Uterus
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Pancreas
- * Stomach, Glandular
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Trachea

OBSERVATIONS

- * Adrenal Cortex [Angiectasis TGLs = 4-8]
- * Liver
- * Mammary Gland [Fibroadenoma TGLs = 2-14]
- * Nose
- * Pituitary Gland [Hyperplasia TGLs = 3-8]
- * Skin [Basal Cell Adenoma TGLs = 1-13]
- * Spleen
- * Thymus
- * Thyroid Gland
- Angiectasis
- Basophilic Focus
- Bile Duct
- Hyperplasia
- Mixed Cell Focus
- Fibroadenoma
- Inflammation
- Hyperplasia
- Basal Cell Adenoma
- Hematopoietic Cell Proliferation
- Atrophy
- Adenoma
- Hyperplasia
- Moderate
- Minimal
- Mild
- Moderate
- Minimal
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902056

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|----------------------------------|--------------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Lymphoma Malignant | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 294

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Skin
- * Urinary Bladder
- Blood Vessel
- * Clitoral Gland
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Stomach, Forestomach
- * Bone
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Nose
- * Pituitary Gland
- * Stomach, Glandular
- * Bone Marrow
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lung
- * Ovary
- * Salivary Glands
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Eye
- * Heart
- * Kidney
- * Liver
- Retina
- Hyperplasia
- Atrophy
- Cardiomyopathy
- Inflammation
- Angiectasis
- Basophilic Focus
- Clear Cell Focus
- Hepatocellular Adenoma
- Hyperplasia
- Minimal
- Mild
- Minimal
- Suppurative, Minimal
- Mild
- Bile Duct
- [Angiectasis TGLs = 3-15]
- [Hepatocellular Adenoma TGLs = 4-16]
- * Mammary Gland
- [Fibroadenoma TGLs = 1,2-13+14]
- Fibroadenoma
- Multiple
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- C Cell
- Endometrium
- Hematopoietic Cell Proliferation
- Atrophy
- Hyperplasia
- Hyperplasia
- Minimal
- Mild
- Mild
- Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902058

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 | * Nose | * Pituitary Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-----------------|----------------------------------------|------------------------|-----------------|
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| Mesentery | Fat | Necrosis | Minimal |
| | [Necrosis TGLs = 2-14] | | |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 3-11] | | |
| * Pancreas | | Atrophy | Minimal |
| * Skin | | Mast Cell Tumor Benign | |
| | [Mast Cell Tumor Benign TGLs = 4-15] | | |
| * Thymus | | Hyperplasia | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 296

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|------------------------------|---------------|------------------|----------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Inflammation | Suppurative, Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-13] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-8] | | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 297

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902060

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------------------|-------------------------|----------|
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 2-14] | | |
| * Skin | | Squamous Cell Papilloma | |
| | [Squamous Cell Papilloma TGLs = 1-13] | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 298

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902061

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 | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|----------------------------------|----------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Nose | | Inflammation | Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | Multiple |
| | Pars Distalis | Hyperplasia | Moderate |
| | [Adenoma TGLs = 2-8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * 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 | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|-------------------|-----------|------------------|---------|
| * Eye | Cornea | Inflammation | Minimal |
| * Harderian Gland | | Inflammation | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Nose | | Inflammation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902063

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------------|----------------------------------|-----------------|
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-13+14] | | |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hyperplasia | Mild |
| | [Adenoma TGLs = 3-8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902064

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 | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|----------------------|---------------|----------------------------------|----------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 548

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Clitoral Gland
- * Kidney
- [Hydronephrosis TGLs = 4,5-5+15]
- * Liver
- Bile Duct
- Bile Duct
- [Cyst TGLs = 3-14]
- * Lung
- Mesentery
- * Pituitary Gland
- [Hyperplasia TGLs = 7-16]
- * Thymus
- * Thyroid Gland
- * Uterus
- Endometrium
- [Carcinoma TGLs = 1-13]
- [Inflammation TGLs = 2-11]
- Carcinoma
- Inflammation
- Carcinoma
- Hydronephrosis
- Basophilic Focus
- Cyst
- Hyperplasia
- Carcinoma
- Carcinoma
- Hyperplasia
- Atrophy
- Hyperplasia
- Carcinoma
- Hyperplasia
- Inflammation
- Metastatic (Uterus)
- Minimal
- Metastatic (Uterus)
- Marked
- Minimal
- Mild
- Metastatic (Uterus)
- Metastatic (Uterus)
- Mild
- Marked
- Minimal
- Cystic, Mild
- Suppurative, Moderate

PRIMARY CAUSE OF DEATH - Uterus Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 693

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|------------------|----------|
| * Brain | | Compression | Moderate |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-8] | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | | Polyp Stromal | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 656

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902067

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 |
| * Mammary Gland | * Nose | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-----------------|-----------------------------------|--------------|-----------------------|
| * Kidney | Renal Tubule | Cyst | Mild |
| | [Cyst TGLs = 10-18] | | |
| * Liver | | Carcinoma | Metastatic (Uterus) |
| | | Fatty Change | Mild |
| | [Carcinoma TGLs = 9-17] | | |
| * Lung | | Carcinoma | Metastatic (Uterus) |
| | [Carcinoma TGLs = 12,13-20+21] | | |
| Lymph Node | Mediastinal | Congestion | Mild |
| | [Congestion TGLs = 11-19] | | |
| Mesentery | | Carcinoma | Metastatic (Uterus) |
| | [Carcinoma TGLs = 3,4,5,6,7-15] | | |
| * Pancreas | | Carcinoma | Metastatic (Uterus) |
| * Spleen | | Carcinoma | Metastatic (Uterus) |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Carcinoma | Multiple |
| | Cervix | Cyst | Moderate |
| | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Inflammation | Suppurative, Moderate |
| | [Carcinoma TGLs = 1,2-13+14] | | |
| | [Cyst TGLs = 8-16] | | |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 656

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902067

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Uterus Carcinoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902068

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------|----------------------------------|---------|
| * Liver | | Basophilic Focus | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lung | * 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

- | | | | |
|----------------------------|---------------|----------------------------------|-----------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Heart | Endocardium | Hyperplasia | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | Minimal |
| * Liver | | Clear Cell Focus | |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 1-11] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| [Hyperplasia TGLs = 2-8] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Polyp Stromal | |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 527

DOSE: 250 mg/kg

DISP: Natural Death

HISTO: 0902070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Heart | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Pituitary Gland | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- | | | | |
|--------------------------|-------------------|--------------------------|--------------------------|
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Small, Ileum |
| * Lymph Node, Mandibular | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Thyroid Gland | | | |

OBSERVATIONS

- | | | | |
|--------------------------------|--|----------------|---------------------|
| * Liver | | Pigmentation | Mild |
| Mesentery | | Leiomyosarcoma | Metastatic (Uterus) |
| [Leiomyosarcoma TGLs = 2-14] | | | |
| Skeletal Muscle | | Leiomyosarcoma | Metastatic (Uterus) |
| [Leiomyosarcoma TGLs = 3-15] | | | |
| * Thymus | | Atrophy | Marked |
| * Uterus | | Leiomyosarcoma | |
| [Leiomyosarcoma TGLs = 1-13] | | | |

PRIMARY CAUSE OF DEATH - Uterus Leiomyosarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 658

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Ovary
- Spinal Cord
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- Peripheral Nerve
- * Spleen
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Stomach, Forestomach
- * Bone Marrow
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Skin
- * Trachea

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Brain
- * Liver
- [Carcinoma TGLs = 4-20]
- * Mammary Gland
- [Fibroadenoma TGLs = 6-21]
- Mesentery
- [Carcinoma TGLs = 2-18]
- * Nose
- * Pancreas
- [Carcinoma TGLs = 1-17]
- * Pituitary Gland
- [Adenoma TGLs = 5-8]
- * Stomach, Glandular
- * Thymus
- Vacuolization Cytoplasmic
- Compression
- Basophilic Focus
- Carcinoma
- Clear Cell Focus
- Fatty Change
- Necrosis
- Fibroadenoma
- Carcinoma
- Inflammation
- Carcinoma
- Adenoma
- Hyperplasia
- Carcinoma
- Atrophy
- Minimal
- Mild
- Metastatic (Uterus)
- Metastatic (Uterus)
- Minimal
- Minimal
- Metastatic (Uterus)
- Metastatic (Uterus)
- Metastatic (Uterus)
- Moderate
- Metastatic (Uterus)
- Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 658

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902071

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Carcinoma	Metastatic (Uterus)
* Uterus	Endometrium	Carcinoma	
		Hyperplasia	Cystic, Mild
		Inflammation	Suppurative, Mild

[Carcinoma TGLs = 3-19]

PRIMARY CAUSE OF DEATH - Uterus Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|----------------------------|----------------------------------|-----------------|
| * Adrenal Cortex | | Angiectasis | Minimal |
| | | Hyperplasia | Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 1-8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------|----------------------------------|-----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Intestine Large, Cecum | | Inflammation | Moderate |
| * Intestine Large, Colon | | Inflammation | Mild |
| * Kidney | | Inflammation | Chronic, Moderate |
| | [Inflammation TGLs = 1-13] | | |
| * Liver | | Clear Cell Focus | |
| * Lymph Node, Mesenteric | | Hyperplasia | Plasma Cell, Moderate |
| | [Hyperplasia TGLs = 2-14] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | Pars Intermed | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Glandular | | Ulcer | Moderate |
| | [Ulcer TGLs = 3-15] | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 311

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902074

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-----------------|--------|----------------------------------|---------|
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902075

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | |
|------------------------------|------------------|---------|
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| | Mixed Cell Focus | |
| * Mammary Gland | Fibroadenoma | |
| [Fibroadenoma TGLs = 1-13] | | |
| * Thymus | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 614

DOSE: 250 mg/kg

DISP: Natural Death

HISTO: 0902076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Pancreas
- * Urinary Bladder
- Blood Vessel
- * Clitoral Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Skin
- * Bone
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Nose
- * Stomach, Forestomach
- * Bone Marrow
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Ovary
- * Stomach, Glandular

MISSING

- * Esophagus
- * Parathyroid Gland
- * Eye
- * Salivary Glands
- * Harderian Gland
- * Thyroid Gland
- * Lymph Node, Mandibular
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Liver
- * Pituitary Gland
- * Spleen
- * Thymus
- * Uterus
- Necrosis
- Fatty Change
- Hyperplasia
- Hematopoietic Cell Proliferation
- Atrophy
- Sarcoma Stromal
- Minimal
- Minimal
- Minimal
- Marked
- Moderate

[Hematopoietic Cell Proliferation TGLs = 2-14]

[Sarcoma Stromal TGLs = 1-13]

PRIMARY CAUSE OF DEATH - Uterus Sarcoma Stromal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902077

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
- * Kidney
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Spleen
- * Stomach, Forestomach
- * Urinary Bladder
- * Uterus
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Ovary
- * Skin
- * Trachea

OBSERVATIONS

- * Brain [Granular Cell Tumor Benign TGLs = 2-9] Granular Cell Tumor Benign
- * Liver [Adenoma TGLs = 1-8]
 - Bile Duct Basophilic Focus
 - Clear Cell Focus
 - Hyperplasia Mild
 - Mixed Cell Focus
 - Adenoma
- * Pituitary Gland Pars Distalis
- * Thymus Atrophy Mild
- * Thyroid Gland C Cell Hyperplasia Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902078

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 | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------------|----------------------------------|-----------------|
| * Kidney | Renal Tubule | Necrosis | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2-13+14] | | |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | Pars Intermed | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Sarcoma Stromal | |
| | [Sarcoma Stromal TGLs = 3-15] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 713

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mandibular
- * Skin
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Nose
- * Stomach, Glandular
- * Bone Marrow
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Salivary Glands
- * Thymus

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - Angiectasis
 - Hyperplasia
 - Compression
 - Nephropathy
 - Basophilic Focus
 - Clear Cell Focus
 - Fatty Change
 - Mixed Cell Focus
 - * Brain
 - * Kidney
 - * Liver
 - Carcinoma
 - Adenoma
 - * Lung
 - * Mammary Gland
 - [Adenoma TGLs = 1-16]
 - * Ovary
 - [Cyst TGLs = 2-11]
 - * Pancreas
 - [Carcinoma TGLs = 3,7-14+17]
 - * Pituitary Gland
 - [Adenoma TGLs = 9-8]
 - Skeletal Muscle
 - [Carcinoma TGLs = 8-15]
 - * Spleen
- Pars Distalis
- Cyst
- Carcinoma
- Adenoma
- Carcinoma
- Hematopoietic Cell Proliferation
- Mild
- Moderate
- Mild
- Minimal
- Minimal
- Metastatic (Uterus)
- Mild
- Metastatic (Uterus)
- Metastatic (Uterus)
- Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 713

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902079

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation	TGLs = 4-5]		
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Hyperplasia	Minimal
	C Cell	Hyperplasia	Minimal
* Uterus		Carcinoma	
		Dilatation	Moderate
		Inflammation	Suppurative, Moderate
[Carcinoma	TGLs = 6-13]		
[Dilatation	TGLs = 5-11]		

PRIMARY CAUSE OF DEATH - Uterus Carcinoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 636

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------------|---------------|--------------------|-----------------|
| * Brain | | Compression | Moderate |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Moderate |
| * Mammary Gland | | Adenoma | |
| [Adenoma TGLs = 1-13] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2-8] | | | |
| * Spleen | Lymph Follic | Atrophy | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-----------------|----------------------------------|----------------------------------|---------------------|
| * Eye | Retina | Atrophy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| | [Clear Cell Focus TGLs = 1-13] | | |
| * Lung | | Inflammation | Granulomatous, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicle | Hyperplasia | Minimal |
| | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 722

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Kidney
- * Liver
- * Lung
- * Mammary Gland
[Adenoma TGLs = 1-13]
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Bile Duct
- Pars Distalis
- Pars Intermed
- C Cell
- Endometrium
- Hyperplasia
- Inflammation
- Basophilic Focus
- Fatty Change
- Hyperplasia
- Inflammation
- Adenoma
- Hyperplasia
- Hyperplasia
- Hematopoietic Cell Proliferation
- Atrophy
- Hyperplasia
- Hyperplasia
- Mild
- Suppurative, Mild
- Minimal
- Mild
- Granulomatous, Minimal
- Minimal
- Mild
- Moderate
- Marked
- Mild
- Cystic, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 320

TRT#: 4

SEX: Female

DAY ON TEST: 492

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|------------------------|---------------|-------------|----------|
| * Brain | | Compression | Moderate |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902084

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-----------------|----------------|----------------------------------|---------|
| * Liver | | Basophilic Focus | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902085

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|------------------------|---------------|----------------------------------|----------|
| * Adrenal Cortex | | Angiectasis | Minimal |
| * Liver | | Basophilic Focus | |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicle | Hyperplasia | Moderate |
| * Uterus | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 583

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902086

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
- * Nose
- * Salivary Glands
- * Skin
- * Trachea
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Ovary
- * Stomach, Forestomach
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Stomach, Glandular

OBSERVATIONS

- * Intestine Large, Colon [Carcinoma TGLs = 5-16] Carcinoma Metastatic (Uterus)
- * Kidney Carcinoma Metastatic (Uterus)
- * Lung [Carcinoma TGLs = 6-3+4] Carcinoma Metastatic (Uterus)
- Mesentery [Carcinoma TGLs = 2-13] Carcinoma Metastatic (Uterus)
- * Pancreas Carcinoma Metastatic (Uterus)
- * Pituitary Gland Cyst Minimal
- * Spleen Pars Distalis Hyperplasia Minimal
- Lymph Follic Atrophy Marked
- Hematopoietic Cell Proliferation Mild
- * Thymus Atrophy Marked
- Carcinoma Metastatic (Uterus)
- * Thyroid Gland C Cell Hyperplasia Minimal
- * Urinary Bladder Carcinoma Metastatic (Uterus)
- * Uterus Carcinoma
- Dilatation Mild
- Inflammation Suppurative, Marked
- [Carcinoma TGLs = 4-15]
- [Inflammation TGLs = 3-14]

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 583

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902086

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Uterus Carcinoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902087

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------------|---------------|----------------------------------|----------|
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | Multiple |
| [Adenoma TGLs = 2-8] | | | |
| * Skin | | Fibroma | |
| [Fibroma TGLs = 1-13] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | | Dilatation | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902088

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 | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|----------------------|------------------------------|----------------------------------|---------|
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Liver | | Basophilic Focus | |
| | | Mixed Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-14] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 1-13] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Marked
* Adrenal Medulla		Hyperplasia	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 1-13]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 3-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 2-8]			
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902090

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	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
* Mammary Gland		Adenoma	
[Adenoma TGLs = 1-13]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLs = 2-8]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 328

TRT#: 4

SEX: Female

DAY ON TEST: 664

DOSE: 250 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902091

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
- * Kidney
- * Nose
- * Ovary
- * Skin
- * Spleen
- * Trachea
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Forestomach
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Stomach, Glandular

OBSERVATIONS

- * Brain
- * Liver
- * Lung
- * Mammary Gland
- [Fibroadenoma TGLs = 1-13]
- * Pancreas
- [Carcinoma TGLs = 4,5-16+17]
- * Pituitary Gland
- [Adenoma TGLs = 2-14]
- * Thymus
- * Thyroid Gland
- * Uterus
- [Carcinoma TGLs = 3-15]
- Bile Duct
- Pars Distalis
- C Cell
- Endometrium
- Compression
- Basophilic Focus
- Eosinophilic Focus
- Hyperplasia
- Carcinoma
- Fibroadenoma
- Carcinoma
- Adenoma
- Atrophy
- Hyperplasia
- Carcinoma
- Hyperplasia
- Mild
- Mild
- Metastatic (Uterus)
- Metastatic (Uterus)
- Marked
- Minimal
- Cystic, Mild

PRIMARY CAUSE OF DEATH - Uterus Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902092

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 | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|------------------------|---------------|----------------------------------|----------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| * Uterus | | Inflammation | Suppurative, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 250 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902093

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, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------------|----------------------------------|----------------------|
| * Intestine Large, Colon | | Parasite Metazoan | Minimal |
| * Liver | | Basophilic Focus | |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hyperplasia | Moderate |
| | [Adenoma TGLs = 2-8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Hyperplasia | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Inflammation | Suppurative, Minimal |
| | | Sarcoma Stromal | |
| | [Sarcoma Stromal TGLs = 1-13] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 331

TRT#: 6

SEX: Female

DAY ON TEST: 545

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Brain | | Compression | Marked |
| * Clitoral Gland | | Inflammation | Minimal |
| * Kidney | Renal Tubule | Necrosis | Moderate |
| * Liver | | Basophilic Focus | |
| | [Basophilic Focus TGLs = 2-13] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-8] | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Small, Duodenum
- * Kidney
- * Nose
- * Skin
- * Trachea
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Ileum
- * Lung
- * Ovary
- * Spleen
- * Urinary Bladder
- * Bone
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pancreas
- * Stomach, Forestomach
- * Uterus
- * Bone Marrow
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Stomach, Glandular

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - Angiectasis
 - Hyperplasia
 - Leiomyoma
- * Intestine Large, Cecum
 - [Leiomyoma TGLs = 3-15]
- * Liver
 - Basophilic Focus
 - Clear Cell Focus
 - Inflammation
 - Fibroadenoma
- * Mammary Gland
 - [Fibroadenoma TGLs = 1,2-13+14]
- * Pituitary Gland
 - Pars Distalis
- * Thymus
- * Thyroid Gland
 - C Cell
 - C Cell

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 333

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Nose		Inflammation	Mild
* Skin		Lipoma	
	[Lipoma TGLs = 1-13]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902098

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 | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|------------------|-----------------------|
| * Kidney | Renal Tubule | Cyst | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 1-11] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Adenoma | |
| | Cervix | Hyperplasia | Mild |
| | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Inflammation | Suppurative, Moderate |
| [Adenoma TGLs = 2-11] | | | |
| [Hyperplasia TGLs = 3-13] | | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|----------------------|-----------------------|
| * Brain | | Ependymoma Malignant | |
| | [Ependymoma Malignant TGLs = 4-9] | | |
| * Clitoral Gland | | Inflammation | Minimal |
| * Intestine Small, Ileum | | Parasite Metazoan | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 1,2-14+15] | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Carcinoma | |
| | Endometrium | Hyperplasia | Cystic, Mild |
| | | Inflammation | Suppurative, Moderate |
| | [Carcinoma TGLs = 3-13] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 337

TRT#: 6

SEX: Female

DAY ON TEST: 321

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Kidney Nephropathy Minimal
- * Liver Carcinoma Metastatic (Uterus)
- Necrosis Mild
- * Lung Carcinoma Metastatic (Uterus)
- Mesentery Carcinoma Metastatic (Uterus)
- [Carcinoma TGLs = 4-14]
- * Pituitary Gland Pars Distalis Hyperplasia Minimal
- Skeletal Muscle Carcinoma Metastatic (Uterus)
- [Carcinoma TGLs = 3-13]
- * Spleen Hematopoietic Cell Proliferation Moderate
- * Thymus Atrophy Moderate
- * Thyroid Gland C Cell Hyperplasia Minimal
- * Uterus Carcinoma
- Endometrium Hyperplasia Cystic, Mild
- Inflammation Suppurative, Mild
- [Carcinoma TGLs = 2-11]

PRIMARY CAUSE OF DEATH - Uterus Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902101

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 | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------|-----------------------|------------------|------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Skin | | Ulcer | Mild |
| | [Ulcer TGLs = 1-13] | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 488

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|-------------|--------------|
| * Brain | | Compression | Marked |
| * Kidney | | Nephropathy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-14] | | | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| [Hyperplasia TGLs = 1-13] | | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Fibrosis	Mild
* Eye		Cataract	Moderate
	[Cataract TGLs = 1-13]		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Ovary		Cyst	Mild
	[Cyst TGLs = 2-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-15]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Pancreas
- * Stomach, Forestomach
- * Uterus
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Mammary Gland
- * Parathyroid Gland
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Salivary Glands
- * Trachea
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Ovary
- * Skin
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
- * Liver
- [Eosinophilic Focus TGLs = 1-13]
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- Angiectasis
- Angiectasis
- Basophilic Focus
- Clear Cell Focus
- Eosinophilic Focus
- Pars Distalis
- Follicle
- C Cell
- Hyperplasia
- Hematopoietic Cell Proliferation
- Atrophy
- Hyperplasia
- Hyperplasia
- Mild
- Mild
- Mild
- Minimal
- Minimal
- Moderate
- Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone		Hyperplasia	Mild
	[Hyperplasia TGLs = 1-13]		
* Brain		Compression	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 310

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902106

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|------------------------|--------------|----------------------------------|---------------|
| * Liver | | Fatty Change | Minimal |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| | | Hematopoietic Cell Proliferation | Moderate |
| * Stomach, Forestomach | | Inflammation | Chronic, Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 450

DOSE: 500 mg/kg

DISP: Natural Death

HISTO: 0902107

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|----------|----------------------------|-------------|----------|
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Spleen | Lymph Follic | Atrophy | Mild |
| * Thymus | | Atrophy | Minimal |
| * Uterus | | Dilatation | Marked |
| | [Dilatation TGLs = 1-13] | | |
| Vagina | | Cyst | Moderate |
| | [Cyst TGLs = 2-14] | | |

PRIMARY CAUSE OF DEATH - Uterus Dilatation

CONTRIBUTORY CAUSE OF DEATH - Vagina Cyst

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902108

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|------------------|----------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|---------------------------|-------------|-------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Intestine Large, Rectum | | Parasite Metazoan | Mild |
| * Kidney | | Lipoma | |
| * Liver | | Basophilic Focus | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Inflammation | Suppurative, Mild |

[Hyperplasia TGLs = 1-13]

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902110

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
- * Kidney
- * Lymph Node, Mesenteric
- * Nose
- * Salivary Glands
- * Skin
- * Trachea
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Pancreas
- * Stomach, Forestomach
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular

OBSERVATIONS

- * Brain
- Compression
- Moderate
- * Liver
- Basophilic Focus
- Bile Duct
- Cyst
- Mild
- Eosinophilic Focus
- Bile Duct
- Hyperplasia
- Mild
- [Cyst TGLs = 5-15]
- * Mammary Gland
- Adenoma
- [Adenoma TGLs = 3-14]
- * Ovary
- Cyst
- Mild
- [Cyst TGLs = 2-11]
- * Pituitary Gland
- Pars Distalis
- Adenoma
- [Adenoma TGLs = 4-8]
- * Spleen
- Hematopoietic Cell Proliferation
- Minimal
- * Thymus
- Atrophy
- Mild
- * Thyroid Gland
- C Cell
- Hyperplasia
- Mild
- * Uterus
- Endometrium
- Hyperplasia
- Cystic, Minimal
- Inflammation
- Suppurative, Minimal
- Sarcoma Stromal
- [Sarcoma Stromal TGLs = 1-13]

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 348

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902111

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------|----------------------------|------------------|-----------------|
| * Heart | | Cardiomyopathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Mixed Cell Focus | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 1-8] | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 705

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Blood Vessel | * Bone | * Bone Marrow | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|---------------------------|---------------|----------------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Adrenal Medulla | | Thrombosis | Moderate |
| [Thrombosis TGLs = 2-8] | | | |
| * Brain | | Compression | Marked |
| * Clitoral Gland | | Inflammation | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Kidney | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|----------------------|---------------|----------------------------------|-----------------|
| * Eye | Retina | Atrophy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 351

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902114

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-------------------|------------------------------------|----------------------------------|---------|
| * Liver | | Basophilic Focus | |
| | | Mixed Cell Focus | |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1-13] | | |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 352

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902115

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|-----------------|--------|----------------------------------|---------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 353

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Pancreas
- * Stomach, Forestomach
- * Uterus
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Mammary Gland
- * Parathyroid Gland
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Salivary Glands
- * Trachea
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Ovary
- * Skin
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
- * Liver
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- Hyperplasia
- Basophilic Focus
- Clear Cell Focus
- Mixed Cell Focus
- Pars Distalis
- Pars Intermed
- C Cell
- Hyperplasia
- Hyperplasia
- Hematopoietic Cell Proliferation
- Atrophy
- Hyperplasia
- Mild
- Minimal
- Mild
- Minimal
- Mild
- Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 354

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * 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
- * Mammary Gland
- * Nose
- * Ovary
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Stomach, Forestomach
- * Stomach, Glandular
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Kidney [Cyst TGLs = 1-13] Renal Tubule Cyst Mild
- * Liver Bile Duct Basophilic Focus Minimal
- Clear Cell Focus
- Hyperplasia
- Mixed Cell Focus
- * Spleen Hematopoietic Cell Proliferation Minimal
- * Thymus Atrophy Mild
- * Thyroid Gland C Cell Hyperplasia Mild
- * Uterus Endometrium Hyperplasia Cystic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 355

TRT#: 6

SEX: Female

DAY ON TEST: 637

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Stomach, Glandular
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Nose
- * Salivary Glands
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Ovary
- * Skin
- * Urinary Bladder
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pancreas
- * Stomach, Forestomach

OBSERVATIONS

- * Adrenal Cortex
- * Liver
- * Mammary Gland
[Adenoma TGLs = 1-13]
- * Pituitary Gland
[Hyperplasia TGLs = 2-8]
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Bile Duct
- Pars Distalis
- C Cell
- Endometrium
- Angiectasis
- Basophilic Focus
- Hyperplasia
- Adenoma
- Hyperplasia
- Hematopoietic Cell Proliferation
- Atrophy
- Hyperplasia
- Hyperplasia
- Mild
- Minimal
- Moderate
- Moderate
- Mild
- Minimal
- Cystic, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 356

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Stomach, Glandular
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Nose
- * Salivary Glands
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Ovary
- * Skin
- * Urinary Bladder
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pancreas
- * Stomach, Forestomach

OBSERVATIONS

- * Adrenal Cortex
- * Liver
- * Mammary Gland
 - [Cyst TGLs = 4-16]
- * Pituitary Gland
 - [Hyperplasia TGLs = 3-15]
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
 - [Carcinoma TGLs = 1-13]
- Angiectasis
- Leukemia Mononuclear
- Cyst
- Pars Distalis
- Hyperplasia
- Leukemia Mononuclear
- Atrophy
- Hyperplasia
- Carcinoma
- Endometrium
- Hyperplasia
- Inflammation
- Mild
- Mild
- Mild
- Minimal
- Mild
- Cystic, Moderate
- Suppurative, Mild

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 357

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902120

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|----------------------|--------|------------------|---------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Nose | | Inflammation | Minimal |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 1-13] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 358

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902121

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|------------------|--------|------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Nose | | Inflammation | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Adenoma | |
| | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 359

TRT#: 6

SEX: Female

DAY ON TEST: 496

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|----------------------|------|
| * Brain | | Ependymoma Malignant | |
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Brain Ependymoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 360

TRT#: 6

SEX: Female

DAY ON TEST: 377

DOSE: 500 mg/kg

DISP: Natural Death

HISTO: 0902123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|--------------------------------------|----------------------------------|------------------|
| * Brain | Astrocytoma Malignant | |
| [Astrocytoma Malignant TGLs = 3-9] | | |
| * Lung | Inflammation | Chronic, Minimal |
| * Spleen | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH - Brain Astrocytoma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 243

DOSE: 500 mg/kg

DISP: Natural Death

HISTO: 0902124

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|-----------------|-------------------------------------------------|----------------------------------|----------|
| * Liver | Centrilobular | Necrosis | Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | [Hematopoietic Cell Proliferation TGLs = 3-5] | | |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 697

DOSE: 500 mg/kg

DISP: Natural Death

HISTO: 0902125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Kidney		Inflammation	Suppurative, Mild
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLs = 3-13]		
* Lung		Inflammation	Chronic, Minimal
Mesentery		Leiomyosarcoma	Metastatic (Stomach, Glandular)
	[Leiomyosarcoma TGLs = 5-16]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLs = 2-5]		
* Stomach, Glandular		Leiomyosarcoma	
	[Leiomyosarcoma TGLs = 4-14+15]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Stomach, Glandular Leiomyosarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902126

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--------------------------|---------------|----------------------------------|-----------------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 1-13] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Pancreas
- * Spleen
- * Urinary Bladder
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Mammary Gland
- * Parathyroid Gland
- * Stomach, Forestomach
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Salivary Glands
- * Stomach, Glandular
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Ovary
- * Skin
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Liver
- * Pituitary Gland
- * Thymus
- * Thyroid Gland
- * Uterus
- Bile Duct
- Pars Distalis
- C Cell
- Endometrium
- Cervix
- Cervix, Endometrium
- Angiectasis
- Basophilic Focus
- Clear Cell Focus
- Hyperplasia
- Hyperplasia
- Atrophy
- Hyperplasia
- Adenoma
- Adenomyosis
- Hyperplasia
- Hyperplasia
- Vacuolization Cytoplasmic
- Mild
- Minimal
- Mild
- Minimal
- Minimal
- Moderate
- Cystic, Moderate
- Mild
- Marked

[Hyperplasia TGLs = 2-11]

[Vacuolization Cytoplasmic TGLs = 1-13]

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 366

TRT#: 6

SEX: Female

DAY ON TEST: 531

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902129

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------------|---------------|----------------------------------|----------|
| * Liver | | Basophilic Focus | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| [Ectasia TGLs = 2-14] | | | |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | Pars Intermed | Hyperplasia | Minimal |
| * Skin | | Fibroma | |
| [Fibroma TGLs = 1-13] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Dilatation | Mild |

PRIMARY CAUSE OF DEATH - Skin Fibroma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 367

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902130

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, Forestomach
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular

OBSERVATIONS

- * Liver
 - Basophilic Focus
 - Clear Cell Focus
- * Lung
 - Alveolar Epith
 - Hyperplasia Minimal
 - Inflammation Minimal
 - Cyst Mild
- * Ovary
 - [Cyst TGLs = 1-13]
- * Pituitary Gland
 - Pars Distalis
 - Hyperplasia Mild
 - Hematopoietic Cell Proliferation Minimal
 - Atrophy Minimal
- * Spleen
- * Thymus
- * Thyroid Gland
 - C Cell
 - Hyperplasia Mild
 - Endometrium
 - Hyperplasia Cystic, Mild
 - Cervix
 - Hyperplasia Mild
 - Inflammation Suppurative, Mild
- * Uterus
 - [Hyperplasia TGLs = 2-14]
 - [Hyperplasia TGLs = 3-15]

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 368

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Kidney | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|------------------|------------------------------------|-------------------------------------------|-------------------------|
| * Adrenal Cortex | | Degeneration
Vacuolization Cytoplasmic | Cystic, Mild
Minimal |
| | [Degeneration TGLs = 1-13] | | |
| * Clitoral Gland | | Inflammation | Minimal |
| * Liver | | Basophilic Focus
Clear Cell Focus | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 2-14] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 369

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902132

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|--------------------------|---------------|------------------|---------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 1-13] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | Follicle | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 370

TRT#: 6

SEX: Female

DAY ON TEST: 561

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902133

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 | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|---------------------------|---------------|----------------------------------|-----------------|
| * Intestine Large, Rectum | | Parasite Metazoan | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Minimal |
| | | Basophilic Focus | |
| | | Necrosis | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902134

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|------------------|--------|------------------|------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 372

TRT#: 6

SEX: Female

DAY ON TEST: 639

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * 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 | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|------------------------|----------------|--------------|----------|
| * Brain | | Compression | Moderate |
| * Heart | Endocardium | Hyperplasia | Mild |
| * Liver | | Fatty Change | Mild |
| * Ovary | | Cyst | Moderate |
| [Cyst TGLs = 1,2-11] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-8] | | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|----------------------------------|----------|
| * Eye | Retina | Atrophy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Pituitary Gland | | Cyst | Mild |
| | Pars Distalis | Hyperplasia | Minimal |
| | [Cyst TGLs = 2-8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 636

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902137

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Stomach, Forestomach | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|----------------------|-------------------------------------------------|----------------------------------|-----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Cyst | Minimal |
| | | Necrosis | Minimal |
| | [Cyst TGLs = 6-16] | | |
| * Skin | | Squamous Cell Papilloma | |
| | [Squamous Cell Papilloma TGLs = 1-13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| | [Hematopoietic Cell Proliferation TGLs = 5-5] | | |
| * Stomach, Glandular | | Mineralization | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Carcinoma | |
| | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Inflammation | Suppurative, Moderate |
| | [Carcinoma TGLs = 2-14] | | |
| | [Hyperplasia TGLs = 3,4,7-11+15] | | |

PRIMARY CAUSE OF DEATH - Uterus Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 375

TRT#: 6

SEX: Female

DAY ON TEST: 529

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------|------------------|----------|
| * Brain | | Compression | Moderate |
| * Eye | | Cataract | Moderate |
| | [Cataract TGLs = 1-10] | | |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| * Ovary | | Cyst | Moderate |
| | [Cyst TGLs = 2-11] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-8] | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Sarcoma Stromal | |
| | [Sarcoma Stromal TGLs = 3-13] | | |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 642

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Salivary Glands
- * Urinary Bladder
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Ovary
- * Skin
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Parathyroid Gland
- * Stomach, Forestomach
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Trachea

MISSING

- * Thymus

OBSERVATIONS

- * Adrenal Cortex
- * Liver
 - [Necrosis TGLs = 7-6]
- Lymph Node
 - [Carcinoma TGLs = 8-17]
- * Mammary Gland
 - [Cyst TGLs = 9-18]
- Mesentery
 - [Carcinoma TGLs = 3-15]
- * Nose
- * Pancreas
 - [Carcinoma TGLs = 4-14+16]
- * Spleen
 - [Carcinoma TGLs = 5,6-5+16]
- * Stomach, Glandular
- * Thyroid Gland
- * Uterus
- Mediastinal
- Vacuolization Cytoplasmic
- Carcinoma
- Necrosis
- Carcinoma
- Cyst
- Carcinoma
- Inflammation
- Carcinoma
- Carcinoma
- Hematopoietic Cell Proliferation
- Ulcer
- Hyperplasia
- Carcinoma
- Mild
- Metastatic (Uterus)
- Moderate
- Metastatic (Uterus)
- Mild
- Metastatic (Uterus)
- Metastatic (Uterus)
- Mild
- Metastatic (Uterus)
- Marked
- Mild
- Minimal
- Multiple

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 642

DOSE: 500 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902139

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLs = 1,2-11+13]
Endometrium

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Uterus Carcinoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 600

DOSE: 500 mg/kg

DISP: Natural Death

HISTO: 0902140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * 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, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- | | | | |
|-------|-------------------|--------------------------|-------------------|
| * Eye | * Harderian Gland | * Lymph Node, Mandibular | * Salivary Glands |
|-------|-------------------|--------------------------|-------------------|

OBSERVATIONS

- | | | | |
|----------|-----------------------------|----------------------------------|---------------------|
| * Liver | | Basophilic Focus | |
| | | Carcinoma | Metastatic (Uterus) |
| | [Carcinoma TGLs = 3-13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thymus | | Atrophy | Minimal |
| * Uterus | | Carcinoma | Multiple |
| | [Carcinoma TGLs = 1,2-11] | | |

PRIMARY CAUSE OF DEATH - Uterus Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|---------------|------------------|---------|
| * Eye | Retina | Atrophy | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 2-13] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Dilatation | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 500 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|------------------------|----------------------------------|----------|
| * Brain | | Compression | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Mild |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Cyst | Mild |
| | [Cyst TGLs = 2-3] | | |
| * Thyroid Gland | Follicle | Hyperplasia | Mild |
| | C Cell | Hyperplasia | Mild |
| * Uterus | | Dilatation | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902145

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 | * Kidney |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|------------------------|------------------------------|----------------------------------|---------|
| * Adrenal Cortex | | Angiectasis | Minimal |
| * Clitoral Gland | | Inflammation | Mild |
| | [Inflammation TGLs = 1-13] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|------------------|---------|
| * Eye | | Degeneration | Marked |
| | [Degeneration TGLs = 1-10] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 531

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Glandular | * Trachea | * Uterus |

OBSERVATIONS

- | | | | |
|------------------------|-------------------------|----------------------------------|-------------------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Brain | | Compression | Marked |
| * Kidney | | Inflammation | Suppurative, Mild |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| * Nose | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Forestomach | | Inflammation | Chronic, Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | | Inflammation | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex [Inflammation TGLs = 1-8]		Inflammation	Suppurative, Moderate
* Adrenal Medulla		Inflammation	Suppurative, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Ovary [Cyst TGLs = 2-11]		Cyst	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 387

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * 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 | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|------------------|---------|
| * Bone | | Fracture | Marked |
| | [Fracture TGLs = 1-14] | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-13] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 388

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902151

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	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Carcinoma	Metastatic (Uterus)
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Carcinoma	
	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Suppurative, Moderate

[Carcinoma TGLs = 2-13]

[Inflammation TGLs = 1-14]

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 389

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902152

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

OBSERVATIONS

- | | | | |
|-------------------|----------------------------|----------------------------------|-----------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Cyst | Mild |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Mixed Cell Focus | |
| | [Cyst TGLs = 1-13] | | |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 2-8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 501

DOSE: 1000 mg/kg

DISP: Natural Death

HISTO: 0902153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * 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
- * Lung
- * 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

- Mesentery [Necrosis TGLs = 2-13] Fat Necrosis Mild
- * Nose Inflammation Mild
- * Ovary [Cyst TGLs = 4-11] Cyst Mild
- * Spleen Hematopoietic Cell Proliferation Mild
- * Thymus Atrophy Mild
- * Uterus [Dilatation TGLs = 3-11] Dilatation Marked

PRIMARY CAUSE OF DEATH - Uterus Dilatation

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 391

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Mammary Gland
- * Parathyroid Gland
- * Stomach, Forestomach
- * Uterus
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Ovary
- * Skin
- * Trachea
- * Bone Marrow
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Pancreas
- * Spleen
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
- * Brain
- * Liver
- Bile Duct
- [Basophilic Focus TGLs = 2-14]
- Mesentery
- [Necrosis TGLs = 1-13]
- * Pituitary Gland
- [Adenoma TGLs = 3-8]
- * Thymus
- * Thyroid Gland
- Angiectasis
- Compression
- Basophilic Focus
- Clear Cell Focus
- Hyperplasia
- Mixed Cell Focus
- Necrosis
- Adenoma
- Atrophy
- Hyperplasia
- Mild
- Mild
- Mild
- Mild
- Minimal
- Moderate
- Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 392

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902155

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|----------------------|---------------|------------------|-------------------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 1-11] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Inflammation | Suppurative, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 603

DOSE: 1000 mg/kg

DISP: Dosing Accident

HISTO: 0902156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | | | |
|-------|-------------------|--------------------------|-------------------|
| * Eye | * Harderian Gland | * Lymph Node, Mandibular | * Salivary Glands |
|-------|-------------------|--------------------------|-------------------|

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|------------------|-----------------------|
| * Esophagus | | Perforation | Marked |
| * Liver | | Basophilic Focus | |
| * Lung | Serosa | Inflammation | Suppurative, Moderate |
| [Inflammation TGLs = 3-4] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4-8] | | | |
| * Spleen | Lymph Follic | Atrophy | Mild |
| * Thymus | | Atrophy | Mild |
| | | Hemorrhage | Minimal |
| [Hemorrhage TGLs = 2-3] | | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 684

DOSE: 1000 mg/kg

DISP: Natural Death

HISTO: 0902157

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|------------------|-----------------------------------------------------------------------------------------|----------------------------------|-----------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| | | Necrosis | Mild |
| | [Necrosis TGLs = 2-6+7+14] | | |
| * Mammary Gland | | Fibroadenoma | |
| | Note: See slide 12 for better view of the neoplasm that is also represented on slide 13 | | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Ovary | | Tubulostromal Adenoma | |
| | [Tubulostromal Adenoma TGLs = 3-15] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Adenoma | |
| | Endometrium | Hyperplasia | Cystic, Minimal |
| | [Adenoma TGLs = 4-16] | | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902158

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 | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------|------------------|---------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Inflammation | Granulomatous, Mild |
| | [Inflammation TGLs = 3-3+4] | | |
| * Mammary Gland | | Adenoma | |
| | [Adenoma TGLs = 1-13] | | |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Intermed | Adenoma | |
| | Pars Distalis | Hyperplasia | Minimal |
| | [Adenoma TGLs = 2-8] | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 396

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|------------------------|------------------------------------|--------------------|---------------|
| * Brain | | Compression | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Mild |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Mixed Cell Focus | |
| | [Eosinophilic Focus TGLs = 3-14] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-8] | | |
| * Stomach, Forestomach | | Inflammation | Chronic, Mild |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 545

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902160

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, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Stomach, Forestomach
- * Stomach, Glandular
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Mammary Gland
- * Salivary Glands
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Skin
- * Urinary Bladder

OBSERVATIONS

- * Liver
 - Basophilic Focus
 - Eosinophilic Focus
 - Hyperplasia
 - Oval Cell
 - [Eosinophilic Focus TGLs = 4-6]
- * Ovary
 - Cyst
- * Pituitary Gland
 - Adenoma
 - Pars Distalis
 - [Adenoma TGLs = 2-8]
- * Spleen
 - Hematopoietic Cell Proliferation
- * Thymus
 - Atrophy
- * Thyroid Gland
 - Hyperplasia
- * Uterus
 - Sarcoma Stromal
 - Ulcer
 - [Sarcoma Stromal TGLs = 1,3-13+14]

PRIMARY CAUSE OF DEATH - Uterus Sarcoma Stromal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 614

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Stomach, Glandular
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Nose
- * Salivary Glands
- * Trachea
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Ovary
- * Skin
- * Urinary Bladder
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pancreas
- * Stomach, Forestomach

OBSERVATIONS

- * Adrenal Cortex
- * Liver
- * Mammary Gland
[Fibroadenoma TGLs = 1-13]
- * Pituitary Gland
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- Hyperplasia
- Basophilic Focus
- Mixed Cell Focus
- Fibroadenoma
- Pars Distalis
- C Cell
- Endometrium
- Hyperplasia
- Hematopoietic Cell Proliferation
- Atrophy
- Adenoma
- Hyperplasia
- Polyp Stromal
- Minimal
- Mild
- Moderate
- Minimal
- Cystic, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 400

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902163

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 | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------|------------------|----------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Hydronephrosis | Moderate |
| | | Nephropathy | Mild |
| | [Hydronephrosis TGLs = 2-14] | | |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-15] | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicle | Hyperplasia | Moderate |
| | C Cell | Hyperplasia | Minimal |
| * Uterus | | Carcinoma | |
| | [Carcinoma TGLs = 1-13] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 401

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902164

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 | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|------------------------------|---------------|----------------------------------|--------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| | | Fibroadenoma | |
| * Mammary Gland | | | |
| [Fibroadenoma TGLs = 1-13] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| [Hyperplasia TGLs = 2-14] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 402

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Stomach, Forestomach
- * Uterus
- Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Pancreas
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Parathyroid Gland
- * Trachea
- * Bone Marrow
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Salivary Glands
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Cortex
 - Hyperplasia
 - Vacuolization Cytoplasmic
- * Liver
 - Clear Cell Focus
 - Mixed Cell Focus
 - Fibroadenoma
- * Mammary Gland
 - [Fibroadenoma TGLs = 2-14]
- * Nose
 - Inflammation
- * Ovary
 - [Cyst TGLs = 3-15]
 - Cyst
- * Pituitary Gland
 - [Hyperplasia TGLs = 4-16]
 - Pars Distalis
- * Skin
 - [Cyst TGLs = 1-13]
 - Vein
- * Spleen
 - Hematopoietic Cell Proliferation
- * Thymus
 - Atrophy
- * Thyroid Gland
 - C Cell
 - Hyperplasia

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 403

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|------------------------|------------------|-----------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Brain | | Compression | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Ovary | | Cyst | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-8] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 406

TRT#: 8

SEX: Female

DAY ON TEST: 615

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902169

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 | * Mammary Gland | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|------------|------------------------------------------------|----------------------------------|---------------------|
| * Liver | | Basophilic Focus
Carcinoma | Metastatic (Uterus) |
| | [Basophilic Focus TGLs = 8-20] | | |
| | [Carcinoma TGLs = 5,6,7,9,10-17+18+19+21+22] | | |
| * Lung | | Carcinoma | Metastatic (Uterus) |
| Mesentery | | Carcinoma | Metastatic (Uterus) |
| | [Carcinoma TGLs = 4-16] | | |
| * Nose | | Inflammation | Minimal |
| * Pancreas | | Carcinoma | Metastatic (Uterus) |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thymus | | Atrophy | Marked |
| * Uterus | | Carcinoma | Multiple |
| | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Metaplasia | Osseous, Mild |
| | [Carcinoma TGLs = 1,2,3-13+14+15] | | |

PRIMARY CAUSE OF DEATH - Uterus Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 407

TRT#: 8

SEX: Female

DAY ON TEST: 191

DOSE: 1000 mg/kg

DISP: Dosing Accident

HISTO: 0902170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * 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 | * Mammary Gland | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|----------------------------------|-----------------|
| * Esophagus | | Perforation | Marked |
| | [Perforation TGLs = 1-13] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| * Nose | | Inflammation | Minimal |
| Skeletal Muscle | | Inflammation | Acute, Moderate |
| | [Inflammation TGLs = 2-14] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 408

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|----------------------------------|------------------|
| * Harderian Gland | | Inflammation | Minimal |
| * Liver | | Basophilic Focus | |
| | [Basophilic Focus TGLs = 1-13] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 409

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902172

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	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
	[Mixed Cell Focus TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	[Hyperplasia TGLs = 2-8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 410

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902173

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|-------------------------|------------------|---------|
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1-13] | | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 411

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902174

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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Ovary		Cyst	Mild
[Cyst TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLs = 2-14]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 412

TRT#: 8

SEX: Female

DAY ON TEST: 684

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|-------------------|------------------------------------|----------------------------------|-----------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Eye | | Cataract | Moderate |
| | [Cataract TGLs = 1-10] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | [Eosinophilic Focus TGLs = 4-15] | Mixed Cell Focus | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-13] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | | Adenomyosis | Mild |
| | | Carcinoma | |
| | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Inflammation | Suppurative, Moderate |
| | [Carcinoma TGLs = 3-14] | | |

PRIMARY CAUSE OF DEATH - Uterus Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 412

TRT#: 8

SEX: Female

DAY ON TEST: 684

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902175

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 414

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Mammary Gland		Cyst	Mild
[Cyst TGLs = 1-13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Adenoma	
	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 415

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902178

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 |
| * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | |
|------------------|----------------------------------|------------------------|
| * Clitoral Gland | Inflammation | Minimal |
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| | Mixed Cell Focus | |
| * Lung | Alveolar/Bronchiolar Adenoma | |
| | Inflammation | Granulomatous, Minimal |
| | [Inflammation TGLs = 1-3+4] | |
| * Ovary | Cyst | Mild |
| | [Cyst TGLs = 2-11] | |
| * Spleen | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 416

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	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	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant	TGLs = 5-17]		
* Clitoral Gland		Inflammation	Minimal
* Eye	Retina	Atrophy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Mammary Gland		Inflammation	Suppurative, Marked
[Inflammation	TGLs = 1-13]		
* Ovary		Inflammation	Suppurative, Marked
[Inflammation	TGLs = 2-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation	TGLs = 6-5]		
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
		Sarcoma Stromal	
[Hyperplasia	TGLs = 3-15]		
[Sarcoma Stromal	TGLs = 4-16]		

PRIMARY CAUSE OF DEATH - Uterus Sarcoma Stromal
 CONTRIBUTORY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant
 - Mammary Gland Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 416

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902179

ORGAN AND ACCOUNTABLE SITE STATUS

- Ovary Inflammation

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 417

TRT#: 8

SEX: Female

DAY ON TEST: 686

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Ovary
- * Skin
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Pancreas
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Stomach, Glandular
- * Bone Marrow
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Nose
- * Salivary Glands
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Medulla
 - * Brain
 - * Eye
 - * Kidney
 - * Liver
 - * Pituitary Gland
 - [Adenoma TGLs = 4-16]
 - * Spleen
 - [Hematopoietic Cell Proliferation TGLs = 3-15]
 - * Thymus
 - * Uterus
 - [Carcinoma TGLs = 2-14]
 - [Sarcoma Stromal TGLs = 1-13]
- Hemorrhage
- Compression
- Atrophy
- Nephropathy
- Basophilic Focus
- Adenoma
- Hematopoietic Cell Proliferation
- Atrophy
- Carcinoma
- Inflammation
- Sarcoma Stromal
- Minimal
- Moderate
- Mild
- Minimal
- Moderate
- Moderate
- Suppurative, Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Uterus Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 418

TRT#: 8

SEX: Female

DAY ON TEST: 607

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hemorrhage	Mild
* Kidney		Carcinoma	Metastatic (Uterus)
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Carcinoma	Metastatic (Uterus)
	[Carcinoma TGLs = 1,8-13+20]		
* Lung		Carcinoma	Metastatic (Uterus)
Mesentery		Carcinoma	Metastatic (Uterus)
	[Carcinoma TGLs = 2,3,4,5,6-14+15+16+17+18]		
* Pancreas		Carcinoma	Metastatic (Uterus)
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Carcinoma	Metastatic (Uterus)
		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Carcinoma	
	Endometrium	Hyperplasia	Cystic, Mild
	[Carcinoma TGLs = 7-19]		

PRIMARY CAUSE OF DEATH - Uterus Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 419

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902182

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------|-----------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| | | Hyperplasia | Minimal |
| * Liver | | Basophilic Focus | |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Sarcoma Stromal | |

[Sarcoma Stromal TGLs = 1-13]

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 420

TRT#: 8

SEX: Female

DAY ON TEST: 462

DOSE: 1000 mg/kg

DISP: Moribund Sacrifice

HISTO: 0902183

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|-----------------|------------------------------|----------------------------------|----------|
| * Liver | | Basophilic Focus | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 421

TRT#: 8

SEX: Female

DAY ON TEST: 442

DOSE: 1000 mg/kg

DISP: Dosing Accident

HISTO: 0902184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * 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 | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|-----------------------------|------------------|----------------------|
| * Esophagus | | Perforation | Marked |
| | [Perforation TGLs = 1-13] | | |
| * Liver | | Basophilic Focus | |
| * Pituitary Gland | Pars Intermed | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Inflammation | Suppurative, Minimal |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 424

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|----------------------|-----------|------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| | | Mineralization | Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 425

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902188

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 | * Kidney | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------------|-------------|----------------------------------|-------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Lung | Bronchiole | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 3-11] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Uterus | | Adenomyosis | Mild |
| | | Carcinoma | Multiple |
| | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Inflammation | Suppurative, Mild |
| [Carcinoma TGLs = 1,2-13+14] | | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 426

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Kidney [Hydronephrosis TGLs = 4-15] Hydronephrosis Moderate
- * Liver [Necrosis TGLs = 5-16] Basophilic Focus
Clear Cell Focus
Mixed Cell Focus
Necrosis Mild
- * Lung Carcinoma Metastatic (Uterus)
- * Ovary Cyst Mild
- * Pancreas [Carcinoma TGLs = 2,6-14+17] Carcinoma Metastatic (Uterus)
- * Pituitary Gland Pars Distalis Hyperplasia Minimal
- * Spleen Hematopoietic Cell Proliferation Moderate
- * Thyroid Gland C Cell Hyperplasia Minimal
- * Uterus Endometrium Carcinoma
Hyperplasia Cystic, Minimal
Inflammation Suppurative, Mild
- [Carcinoma TGLs = 1-13]

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 428

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902191

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-------------------|--------------|----------------------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Nervosa | Adenoma | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 429

TRT#: 8

SEX: Female

DAY ON TEST: 630

DOSE: 1000 mg/kg

DISP: Natural Death

HISTO: 0902192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Spleen
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Salivary Glands
- * Stomach, Glandular
- * Bone
- * Harderian Gland
- * Intestine Small, Duodenum
- * Lung
- * Nose
- * Skin
- * Trachea

OBSERVATIONS

- * Brain
- * Eye
- * Heart
- * Kidney
- * Liver
- * Ovary
- * Pituitary Gland
- * Thymus
- * Thyroid Gland
- * Uterus
- Retina
- Bile Duct
- Pars Distalis
- C Cell
- Endometrium
- Compression
- Atrophy
- Cardiomyopathy
- Nephropathy
- Basophilic Focus
- Hyperplasia
- Mixed Cell Focus
- Cyst
- Adenoma
- Atrophy
- Hyperplasia
- Hyperplasia
- Marked
- Mild
- Minimal
- Minimal
- Mild
- Mild
- Mild
- Mild
- Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 431

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-------------------------|---------------|-------------------------|---------|
| * Adrenal Cortex | | Hyperplasia | Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Eye | Retina | Atrophy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-13] | | | |
| * Thymus | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 432

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902195

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|----------------------------------|-----------------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 5-17] | | |
| | [Mixed Cell Focus TGLs = 4-16] | | |
| * Mammary Gland | | Adenoma | |
| | [Adenoma TGLs = 1-13] | | |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 3-15] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| | [Hyperplasia TGLs = 6-18] | | |
| * Skin | Epidermis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 2-14] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 433

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902196

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 | * Kidney | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|----------------------|-----------|------------------|----------|
| * Clitoral Gland | | Inflammation | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | | Mixed Cell Focus | |
| * Ovary | | Cyst | Moderate |
| [Cyst TGLs = 1-13] | | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 434

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902197

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 | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-----------------|-----------|------------------|---------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| * Ovary | | Cyst | Mild |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902198

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	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
* Lung		Inflammation	Granulomatous, Minimal
	[Inflammation TGLs = 3-15]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-14]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902199

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 | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|------------------------|---------------|------------------|---------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1-8] | | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 446

DOSE: 1000 mg/kg

DISP: Dosing Accident

HISTO: 0902200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * 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 | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-------------|------------------------------|--------------|---------------|
| * Esophagus | | Inflammation | Acute, Marked |
| | [Inflammation TGLs = 2-13] | | |
| * Heart | Pericardium | Inflammation | Acute, Marked |

TDMS No. 20320 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 03/31/2011

Time Report Requested: 14:20:59

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 728

DOSE: 1000 mg/kg

DISP: Terminal Sacrifice

HISTO: 0902202

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

OBSERVATIONS

- | | | | |
|----------------------|-------------|------------------|--------------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Mixed Cell Focus | |
| * Ovary | | Cyst | Minimal |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

