

Experiment Number: 20209 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
Time Report Requested: 15:47:52
First Dose M/F: 02/25/08 / 02/25/08
Lab: SRI

NTP Study Number: C20209
Lock Date: 08/31/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: 08/15/2014

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First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 684

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Pituitary Gland
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Epididymis		Inflammation	Chronic, Minimal
* Harderian Gland		Adenoma	
		Inflammation	Chronic, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
Note: Grading scale-(regular islet about 13 cells wide). minimal hyperplasia (5 to 8 small islets wide), mild (9 to 12 small islets wide).			
Note: Moderate hyperplasia (13 to 16 small islets wide) Marked hyperplasia (17 to 20 small islets wide) Adenoma (greater than 20 small islets wide)			
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic, Mild
[Hepatocellular Adenoma TGLs = 1-21, 4-22]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Nose			
Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation.			
* Pancreas		Inflammation	Chronic, Minimal
* Preputial Gland		Cyst	Marked
		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

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Lab: SRI

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 684

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104001

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLs = 2-8]

[Inflammation TGLs = 2-8]

* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH - Preputial Gland Cyst

CONTRIBUTORY CAUSE OF DEATH - Preputial Gland Inflammation

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 Lab: SRI

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia Hypertrophy	Mild Focal, Mild
* Bone			
Note: TGL 3 = NCL			
* Epididymis		Inflammation	Chronic, Minimal
* Heart		Mineralization	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
	Interstitialium	Inflammation	Chronic, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Fatty Change	Mild
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 2-21]			
* Pancreas		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

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Lab: SRI

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104002

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate

Inflammation

Chronic, Minimal

* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

* Thymus

Atrophy

Minimal

Cyst

Mild

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First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|--------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Pancreas | | Atrophy | Mild |
| | | Cyst | Mild |
| | | Inflammation | Chronic Active, Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Atrophy | Mild |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| Note: Hematopoietic cell proliferation graded based on percentage of red pulp filled and/or expanded with immature blood cells in direct comparison with other animals | | | |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

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Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Nose |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|--------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | | |
| Note: TGL 2 = NCL | | | |
| * Brain | | Hemorrhage | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | Renal Tubule | Dilatation | Mild |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| Note: Adenoma also observed on slide 6 | | | |
| [Hepatocellular Adenoma TGLs = 6-22, 9-25] | | | |
| [Hepatocellular Carcinoma TGLs = 1-21, 7-23, 8-24] | | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | | Infiltration Cellular | Histiocyte, Mild |
| [Alveolar/Bronchiolar Carcinoma TGLs = 10-2] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

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Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104004

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Angiectasis TGLs = 11-1]	Pars Distalis	Angiectasis	Moderate
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen [Pigmentation TGLs = 4-6]		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal

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Lab: SRI

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|-------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Lung |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Seminal Vesicle | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|-----------------------------|--|------------------------|-------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| | Artery | Inflammation | Mild |
| * Eye | | Atrophy | Marked |
| | [Atrophy TGLs = 3-22] | | |
| * Harderian Gland | | Carcinoma | |
| | [Carcinoma TGLs = 4-21] | | |
| * Intestine Small, Duodenum | | Lymphoma Malignant | |
| * Intestine Small, Ileum | | Lymphoma Malignant | |
| * Intestine Small, Jejunum | | Lymphoma Malignant | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Artery, Perirenal Tiss | Inflammation | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Lymphoma Malignant | |
| | [Eosinophilic Focus TGLs = 7-24] | | |
| | [Hepatocellular Adenoma TGLs = 6-23, 8-25] | | |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Mild |
| | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 5-5] | | |

* PROTOCOL REQUIRED TISSUE

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Lab: SRI

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104005

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery

Note: Artery in mesenteric fat (slides 3, 5, 7) mild chronic active inflammation

Lymphoma Malignant

* Preputial Gland

Inflammation

Chronic, Mild

* Prostate

Inflammation

Chronic, Minimal

* Salivary Glands

Cyst

Mild

Infiltration Cellular

Mononuclear CI, Minimal

Inflammation

Granulomatous, Mild

[Cyst TGLs = 2-8]

* Skin

Inflammation

Acute, Mild

Note: slide 9

* Spleen

Hematopoietic Cell Proliferation

Mild

Lymphoma Malignant

[Lymphoma Malignant TGLs = 1-6]

* Stomach, Forestomach

Epithelium

Hyperplasia

Moderate

Note: Epithelium hyperplasia: 5 to 7 cells thick (minimal), 8 to 10 cells thick with small rete ridges (mild).

Note: Epithelium hyperplasia: greater than 10 cells thick with upward projections and rete ridges (moderate), tall branching projections and rete ridges (marked).

[Hyperplasia TGLs = 9-26]

* Testes

Rete Testes

Adenoma

* Thymus

Cyst

Mild

* Thyroid Gland

Follicle

Hypertrophy

Minimal

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Lab: SRI

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Carcinoma | |
| | [Hepatocellular Carcinoma TGLs = 3-22] | | |
| * Lung | | Hemorrhage | Mild |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Chronic, Mild |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 1-21, 4-23] | | |
| * Pancreas | | Atrophy | Minimal |
| | | Inflammation | Chronic, Mild |
| * Parathyroid GI | | | |
| | Note: Parathyroid surrounded section of thyroid adenoma | | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |

* PROTOCOL REQUIRED TISSUE

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Lab: SRI

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104006

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel
Follicle

Adenoma
Hypertrophy

Minimal

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First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Mild |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Pancreas | | Atrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Preputial Gland | | Cyst | Mild |
| | | Inflammation | Chronic, Minimal |
| | [Cyst TGLs = 1-8] | | |
| * Skin | Lip | Inflammation | Acute, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Minimal |
| | | Cyst | Mild |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 639

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------|--------------------------|----------------------|-------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | |

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | |
| | [Hepatocellular Adenoma TGLs = 3-22] | | |
| | [Hepatocellular Carcinoma TGLs = 2-21] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | [Alveolar/Bronchiolar Adenoma TGLs = 4-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 639

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104008

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation TGLs = 1-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Minimal
		Ulcer	Mild
	[Hyperplasia TGLs = 5-24]		
	[Inflammation TGLs = 5-24]		
	[Ulcer TGLs = 5-24]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 298

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104009

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

MISSING

- | | |
|---------------|-----------------|
| * Gallbladder | * Mammary Gland |
|---------------|-----------------|

OBSERVATIONS

- | | | |
|----------|----------------------------------|-------------------|
| * Kidney | Nephropathy | Minimal |
| * Liver | Fatty Change | Mild |
| | Hematopoietic Cell Proliferation | Minimal |
| * Lung | Hemorrhage | Mild |
| | Inflammation | Acute, Minimal |
| * Skin | Hyperkeratosis | Marked |
| | Inflammation | Chronic, Moderate |
| | Subcut Tiss | |
| | Subcut Tiss | |
| | Lipoma | |
| | Necrosis | Mild |

Note: Slide #21 Lesion included necrosis of subcutaneous adipose tissue, chronic inflammation and fibrosis of dermis and subcutaneous tissue,

[Hyperkeratosis TGLs = 1-21]

[Inflammation TGLs = 1-21]

[Lipoma TGLs = 1-21, 2-22]

[Necrosis TGLs = 1-21, 2-22]

- | | | |
|----------|----------------------------------|------|
| * Spleen | Hematopoietic Cell Proliferation | Mild |
|----------|----------------------------------|------|

PRIMARY CAUSE OF DEATH

- Skin Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * 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, Mesenteric | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Glandular | * Testes | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|--|---|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Minimal
Focal, Minimal |
| * Kidney | | Infiltration Cellular
Mineralization
Nephropathy | Mononuclear CI, Minimal
Minimal
Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 1-21] | | |
| * Nose | | Inflammation | Acute, Minimal |
| | Note: Small amount of eosinophilic proteinaceous material in nasal cavity-special stains not performed. | | |
| | Note: Small amount of eosinophilic proteinaceous material in nasal cavity-special stains not performed. | | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia
Necrosis | Mild
Mild |
| | [Hyperplasia TGLs = 3-22] | | |
| | [Necrosis TGLs = 3-22] | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104010

ORGAN AND ACCOUNTABLE SITE STATUS

Tooth

Inflammation

Acute, Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 569

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland	* Thymus	* Trachea
-----------------	---------------------	----------	-----------

OBSERVATIONS

* Adrenal Cortex	Capsule	Degeneration Hyperplasia	Fatty, Minimal Minimal
Note: Hypertrophied cells had vacuolated cytoplasm.			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Infiltration Cellular Mineralization Nephropathy	Mononuclear CI, Mild Minimal Marked
[Nephropathy TGLs = 2-5]			
* Liver		Hepatocellular Carcinoma Inflammation	Chronic, Minimal
[Hepatocellular Carcinoma TGLs = 1-21]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Ectasia Hemorrhage	Moderate Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Germinal Epith	Atrophy	Mild
		Giant Cell	Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 569

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104011

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 600

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Epididymis |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Jejunum | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Seminal Vesicle |
| * Skin | Spinal Cord | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thyroid Gland | * Trachea | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | |
|-----------------------------|--------------------------|
| * Intestine Small, Duodenum | * Intestine Small, Ileum |
|-----------------------------|--------------------------|

OBSERVATIONS

- | | | | |
|--------------------------------------|--|--------------------------|--------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | Vertebra | Callus | Minimal |
| Note: Lesion observed on slide 41-1. | | | |
| * Brain | | Hemorrhage | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Congestion | Moderate |
| | Papilla | Inflammation | Acute, Minimal |
| | | Mineralization | Mild |
| | Papilla | Necrosis | Minimal |
| * Liver | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | [Hepatocellular Adenoma TGLs = 5-24] | | |
| | [Hepatocellular Carcinoma TGLs = 2-21, 3-22] | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Pigmentation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 600

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104012

ORGAN AND ACCOUNTABLE SITE STATUS

Peripheral Nerve

Degeneration

Moderate

Note: Wallerian degeneration present in nerves associated with skeletal muscle lesions

* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

Skeletal Muscle

Fibrosis

Moderate

Hemorrhage

Marked

Inflammation

Chronic, Mild

Regeneration

Mild

Note: Skeletal muscle lesions were also observed on slides 41 and 41-1

Note: Lesions were dorsal to vertebral column and were unilateral.

[Fibrosis TGLs = 4-23]

[Hemorrhage TGLs = 4-23]

[Inflammation TGLs = 4-23]

[Regeneration TGLs = 4-23]

* Spleen

Pigmentation

Mild

* Thymus

Atrophy

Moderate

Cyst

Mild

* Urinary Bladder

Hemorrhage

Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Kidney Papilla Necrosis

- Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 592

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|----------------|----------------------------------|------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | Pelvis | Inflammation | Chronic, Mild |
| | | Nephropathy | Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Prostate | Epithelium | Hyperplasia | Mild |
| | | Inflammation | Acute, Marked |
| Note: Prostate lesions included marked edema | | | |
| | [Hyperplasia | TGLs = 2-7] | |
| | [Inflammation | TGLs = 2-7] | |
| * Seminal Vesicle | | Inflammation | Acute, Mild |
| * Spleen | | Pigmentation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Mineralization | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| | | Mineralization | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 592

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104013

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Prostate Inflammation

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Gallbladder |
| * 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 | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Seminal Vesicle | * Skin |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|------------------------------|---|---|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy
Lymphoma Malignant | Minimal
Focal, Mild |
| Note: Scattered lymphoid cells in cortex-frequent mitotic figures | | | |
| * Eye | Antr Chamber
Antr Chamber | Edema
Necrosis | Mild
Mild |
| Note: Cornea-surface epithelium was not present. Inflammation and edema also present in periocular tissues. Opposite eye-periocular fibrosis. | | | |
| [Edema TGLs = 3-44] | | | |
| [Necrosis TGLs = 3-44] | | | |
| * Harderian Gland | | Hemorrhage
Inflammation
Necrosis | Mild
Acute, Mild
Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization
Nephropathy | Minimal
Minimal |
| * Liver | | Lymphoma Malignant | |
| [Lymphoma Malignant TGLs = 2-6] | | | |
| * Lymph Node, Mandibular | | Hemorrhage
Infiltration Cellular
Pigmentation | Mild
Polymorphnuclr, Mild
Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104014

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland		Cyst	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-21]		
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Minimal
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy Hyperplasia	Marked Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Pituitary Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

- * Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia Hypertrophy	Mild Focal, Minimal
* Eye	Nerve Nerve	Degeneration Inflammation	Mild Acute, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Dilatation Infiltration Cellular Mineralization Nephropathy	Minimal Mononuclear CI, Minimal Minimal Minimal
* Liver		Clear Cell Focus Fatty Change Hepatocellular Adenoma Inflammation	Mild Multiple Chronic, Minimal
Note: Additional adenoma observed on slide 6 [Hepatocellular Adenoma TGLs = 1-21, 2-22]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular		Pigmentation	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104015

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Mild

Infiltration Cellular

Mononuclear CI, Minimal

* Thymus

Atrophy

Minimal

Cyst

Mild

* Thyroid Gland

Follicle

Degeneration

Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 494

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Parathyroid Gland	* Trachea
---------------	---------------------	-----------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Bone	[Fibro-Osseous Lesion TGLs = 3-22]	Fibro-Osseous Lesion	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Nephropathy	Mild
	[Fatty Change TGLs = 2-6]	Fatty Change	Moderate
	[Hepatocellular Carcinoma TGLs = 1-21]	Hepatocellular Carcinoma	
* Lung		Thrombosis	Mild
* Mammary GI			
	Note: Ducts from the rudimentary male mammary gland are present in subcutaneous fat		
* Nose			
	Note: Amorphous basophilic material in nasal cavity-no inflammation.		
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 494

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104016

ORGAN AND ACCOUNTABLE SITE STATUS

Cyst

Mild

* Trachea

Note: Larynx present on slide # 3-2

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 598

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|----------------------------|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Minimal |
| * Bone | Vertebra | Callus | Marked |
| Note: Slide 41, 41-1. | | | |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Hemorrhage | Mild |
| | [Hemorrhage TGLs = 5-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| Mesentery | | Hemorrhage | Mild |
| | Fat | Necrosis | Mild |
| | [Hemorrhage TGLs = 1-21] | | |
| | [Necrosis TGLs = 1-21] | | |
| * Nose | | | |
| Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation. | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 598

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104017

ORGAN AND ACCOUNTABLE SITE STATUS

Peripheral Nerve		Degeneration	Moderate
		Hemorrhage	Mild
* Prostate		Inflammation	Chronic, Minimal
Skeletal Muscle		Fibrosis	Marked
		Hemorrhage	Moderate
		Inflammation	Chronic, Moderate
	[Fibrosis TGLs = 3-22]		
	[Hemorrhage TGLs = 3-22]		
	[Inflammation TGLs = 3-22]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH - Skeletal Muscle Fibrosis
 CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Hemorrhage
 - Skeletal Muscle Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 606

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104018

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, Jejunum | * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Salivary Glands | * Skin | * Trachea |

MISSING

- | | | |
|---------------|-----------------|----------|
| * Gallbladder | * Mammary Gland | * Thymus |
|---------------|-----------------|----------|

OBSERVATIONS

- | | | | |
|--------------------------|---|----------------------------------|-------------------------|
| * Adrenal Cortex | | Histiocytic Sarcoma | |
| | | Hypertrophy | Diffuse, Minimal |
| * Epididymis | | Histiocytic Sarcoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Small, Ileum | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 4-4] | | |
| * Islets, Pancreatic | | Hyperplasia | Marked |
| * Kidney | Renal Tubule | Degeneration | Mild |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Moderate |
| | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 1-21] | | |
| * Lung | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 5-23, 6-25, 7-26] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| Mesentery | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 2-24, 3-22, 4-4,] | | |
| * Nose | | Inflammation | Acute, Moderate |
| * Pancreas | | Histiocytic Sarcoma | |
| | Note: Pancreas present on slide 4-1 | | |
| * Prostate | Epithelium | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 606

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104018

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Inflammation	Acute, Moderate
* Spleen		Histiocytic Sarcoma	
		Hematopoietic Cell Proliferation	Mild
		Histiocytic Sarcoma	
		Pigmentation	Minimal
	Note: Histiocytic sarcoma on capsule slide 6-2		
* Stomach, Forestomach		Histiocytic Sarcoma	
	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular		Histiocytic Sarcoma	
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal
Tissue NOS		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 2-24]		
* Urinary Bladder		Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH - Tissue NOS Histiocytic Sarcoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | Multiple |
| | | Necrosis | Focal, Mild |
| | [Hepatocellular Adenoma TGLs = 3-23] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 2-22, 4-24] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | | Infiltration Cellular | Histiocyte, Mild |
| | [Alveolar/Bronchiolar Carcinoma TGLs = 5-2] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 584

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|--|------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Transit Epithe | Hyperplasia | Minimal |
| | | Inflammation | Acute, Mild |
| Note: Inflammation surrounded tubules filled with rod bacteria (Gram negative rods) | | | |
| | [Inflammation TGLs = 1-5, 2-5, 8-22, 9-22] | | |
| * Liver | | Hepatocellular Adenoma | |
| | | Inflammation | Chronic, Minimal |
| | | Mineralization | Minimal |
| | [Hepatocellular Adenoma TGLs = 7-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Preputial Gland | | Cyst | Mild |
| | | Inflammation | Chronic, Mild |
| | [Cyst TGLs = 3-8] | | |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Acute, Mild |
| | [Inflammation TGLs = 4-7] | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 584

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104020

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Ulcer	Minimal
* Thyroid Gland	Follicle	Atrophy	Moderate
	Follicle	Degeneration	Mild
		Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH - Kidney Inflammation

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 626

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|--------------------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Marked |
| | [Nephropathy TGLs = 3-5] | | |
| * Liver | | Hepatocellular Carcinoma | |
| | | Inflammation | Chronic, Minimal |
| | | Pigmentation | Minimal |
| | Kupffer Cell | | |
| | [Hepatocellular Carcinoma TGLs = 1-21] | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | Note: intravascular tumor embolus | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Hemorrhage | Marked |
| | | Infiltration Cellular | Polymorphnuclr, Mild |
| | | Thrombosis | Mild |
| Mesentery | Artery | Cyst | Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| | | | |
| | [Cyst TGLs = 2-8] | | |
| * Spleen | | Pigmentation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 626

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104021

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Moderate Mild
[Hyperplasia TGLs = 5-22]			
[Inflammation TGLs = 5-22]			
* Testes	Germinal Epith	Atrophy Giant Cell	Mild Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|----------------------|--|------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Bone | Tail | Developmental Malformation | |
| | [Developmental Malformation TGLs = 3-23] | | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | Note: Additional adenoma observed on slide 6. | | |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | Note: Adenoma located in lumen of small bronchus | | |
| | Note: Adenoma-polypoid mass with thin fibrous fronds lined by non-ciliated cuboidal cells and occasional goblet cells. necrosis, mineralization. | | |
| * Pancreas | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104022

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Inflammation

Chronic, Mild

* Prostate

Inflammation

Chronic, Minimal

* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

* Testes

Germinal Epith

Atrophy

Minimal

Experiment Number: 20209 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
Time Report Requested: 15:47:52
First Dose M/F: 02/25/08 / 02/25/08
Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Dilatation Infiltration Cellular Mineralization	Minimal Mononuclear CI, Minimal Minimal
* Liver		Clear Cell Focus Hematopoietic Cell Proliferation	Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Inflammation	Chronic Active, Mild
* Salivary Glands		Cyst	Mild
* Seminal Vesicle		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follicle	Inflammation	Chronic, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Mild

[Hyperplasia TGLs = 2-21]

[Inflammation TGLs = 2-21]

[Ulcer TGLs = 2-21]

* Thymus

Atrophy

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 3

DOSE: 0 MG/KG

DISP: Dosing Accident

HISTO: 110520104024

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

MISSING

- | | | |
|---------------|----------------------------|-----------------|
| * Gallbladder | * Intestine Small, Jejunum | * Mammary Gland |
|---------------|----------------------------|-----------------|

INSUFFICIENT TISSUE

- * Bone

OBSERVATIONS

- | | | | |
|--|---------------|----------------------------|------------------------|
| * Esophagus | | Inflammation
Necrosis | Acute, Mild
Mild |
| Note: Matt of mixed population of bacteria and degenerate neutrophils observed on serosal surface of esophagus
[Inflammation TGLs = 2-3]
[Necrosis TGLs = 2-3] | | | |
| * Intestine Large, Cecum | Lymphoid Tiss | Necrosis | Moderate |
| Note: apoptotic | | | |
| * Int Sm Ileum | | | |
| Note: apoptotic | | | |
| * Liver | | Depletion Glycogen | Mild |
| * Lung | | Hemorrhage
Inflammation | Mild
Acute, Minimal |
| Note: focal inflammation on pleural surface | | | |
| * Lym Node Mesen | | | |
| Note: apoptotic | | | |
| * Lymph Node, Mandibular | | Necrosis | Lymphoid, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 3

DOSE: 0 MG/KG

DISP: Dosing Accident

HISTO: 110520104024

ORGAN AND ACCOUNTABLE SITE STATUS

Note: apoptotic

* Parathyroid GI

Note: Small section of parathyroid observed on slide # 3-1

* Spleen

Atrophy

Moderate

Note: apoptotic

* Thymus

Atrophy

Marked

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|---|--------------|-----------------------|-----------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Bone Marrow | Cranium | Carcinoma | Metastatic (Zymbal'S Gland) |
| Note: Zymbals gland carcinoma was invading bone marrow-slide 21 | | | |
| * Eye | Antr Chamber | Infiltration Cellular | Polymorphnuclr, Mild |
| | Cornea | Inflammation | Mild |
| | Cornea | Necrosis | Mild |
| Note: Surface epithelium of cornea was ulcerated | | | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infarct | Multiple, Moderate |
| | | Infiltration Cellular | Mononuclear Cl, Minimal |
| | | Mineralization | Minimal |
| | Papilla | Necrosis | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| * Lung | | Carcinoma | Metastatic (Zymbal'S Gland) |
| | | Infiltration Cellular | Histiocyte, Moderate |

[Carcinoma TGLs = 6-22]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104025

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular	Pigmentation	Minimal
* Nose	Inflammation	Acute, Minimal
* Pancreas	Inflammation	Chronic, Minimal
* Preputial Gland	Cyst	Mild
	Inflammation	Acute, Mild
[Cyst TGLs = 3-8, 5-8]		
[Inflammation TGLs = 3-8]		
* Stomach, Forestomach	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLs = 7-23]		
Zymbal's Gland	Carcinoma	
[Carcinoma TGLs = 4-21]		

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|----------------------|-----------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Mild
Focal, Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Harderian Gland | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| | Artery | Inflammation | Chronic Active, Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | Papilla | Necrosis | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Cyst | |
| | | Eosinophilic Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Inflammation | Chronic, Minimal |

Note: TGL 3 consisted of 2 adenomas

[Cyst TGLs = 2-22]

[Hepatocellular Adenoma TGLs = 1-21, 3-23, 4-24]

- | | | | |
|--------|----------------|-------------|---------|
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
|--------|----------------|-------------|---------|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104026

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose		Inflammation	Acute, Minimal
Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative for fungus.			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Lipoma	
* Spleen	Lymph Follic	Hyperplasia	Minimal
* Thymus		Atrophy	Minimal
		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Minimal
Tooth		Inflammation	Chronic Active, Moderate
		Necrosis	Mild

Note: Tooth-necrosis with chronic active inflammation

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

- * Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Bone			
Note: TGL 4 = NCL			
* Harderian Gland		Atrophy	Marked
		Fibrosis	Marked
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hemorrhage	Mild
		Hepatocellular Adenoma	
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Minimal
[Hemorrhage TGLs = 3-23]			
[Hepatocellular Adenoma TGLs = 1-21]			
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLs = 2-22]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104027

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Inflammation	Chronic, Minimal
* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Skin	Inflammation	Acute, Minimal
* Stomach, Glandular	Mineralization	Minimal
* Thymus	Atrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|--------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Eye | Cornea | Fibrosis | Mild |
| | Cornea, Epithelium | Hyperplasia | Minimal |
| | Cornea | Inflammation | Chronic Active, Minimal |
| * Harderian Gland | | Adenoma | |
| | [Adenoma TGLs = 3-23] | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | [Clear Cell Focus TGLs = 1-21] | | |
| | Lymph Node | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 2-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Foreign Body | |
| | | Inflammation | Acute, Minimal |
| | Note: Eosinophilic proteinaceous and crystalline material in nose-G.M.S. stain negative for fungus | | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Cyst | Mild |
| * Prostate | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104028

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Erosion	Moderate
	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
	[Erosion TGLs = 4-24]		
	[Hyperplasia TGLs = 4-24]		
	[Inflammation TGLs = 4-24]		
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Marked
	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
 CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
 Time Report Requested: 15:47:52
 First Dose M/F: 02/25/08 / 02/25/08
 Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Nose	* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Bone			
Note: TGL 5 = NCL			
* Brain		Hemorrhage	Minimal
* Epididymis		Inflammation	Chronic, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Carcinoma	
[Basophilic Focus TGLs = 6-24]			
[Eosinophilic Focus TGLs = 3-6]			
[Hepatocellular Carcinoma TGLs = 1-21]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104029

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Lip	Inflammation	Acute, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Mild
	[Hyperplasia TGLs = 4-22]		
	[Inflammation TGLs = 4-22]		
	[Ulcer TGLs = 4-22]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Degeneration	Moderate
	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 521

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Seminal Vesicle
- * Trachea
- Blood Vessel
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Lung
- * Pituitary Gland
- * Stomach, Glandular
- * Urinary Bladder
- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Testes
- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Nose
- * Prostate
- * Thyroid Gland

MISSING

- * Mammary Gland

OBSERVATIONS

- * Adrenal Cortex
- * Islets, Pancreatic
- * Kidney
- * Liver
- [Clear Cell Focus TGLs = 1-21]
- [Hepatocellular Adenoma TGLs = 2-6]
- * Lymph Node, Mandibular
- * Pancreas
- Penis
- Note: End of penis was covered by large amount of eosinophilic amorphous material, keratin, neutrophils, and bacteria
- [Concretion TGLs = 4-23]
- [Inflammation TGLs = 4-23]
- * Salivary Glands
- Capsule
- Hyperplasia
- Hyperplasia
- Infiltration Cellular
- Mineralization
- Nephropathy
- Clear Cell Focus
- Eosinophilic Focus
- Fatty Change
- Hepatocellular Adenoma
- Pigmentation
- Inflammation
- Concretion
- Inflammation
- Infiltration Cellular
- Minimal
- Mild
- Mononuclear CI, Minimal
- Minimal
- Minimal
- Mild
- Mild
- Chronic, Minimal
- Marked
- Acute, Mild
- Mononuclear CI, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 521

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104030

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Epidermis	Hyperplasia	Mild
		Ulcer	Marked
	[Hyperplasia TGLs = 5-22]		
	[Ulcer TGLs = 5-22]		
* Spleen		Pigmentation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Skin Ulcer

Experiment Number: 20209 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
Time Report Requested: 15:47:52
First Dose M/F: 02/25/08 / 02/25/08
Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Infarct	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Metaplasia	Osseous, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Mild
		Hematopoietic Cell Proliferation	Minimal
	[Eosinophilic Focus TGLs = 2-22]		
* Lung		Hemorrhage	Mild
* Lymph Node, Mandibular		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-21]		
* Pancreas		Hypertrophy	Focal, Mild
* Skin		Inflammation	Chronic Active, Minimal
* Spleen	Lymph Follic	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104031

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Inflammation

Minimal

Degeneration

Minimal

Follicle

Hypertrophy

Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | |
| | | Inflammation | Chronic, Mild |
| | [Hepatocellular Adenoma TGLs = 1-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Pancreas | | Atrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Note: Inflammation observed on slides 4, 4-1 | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104032

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Infiltration Cellular

Mononuclear CI, Mild

* Seminal Vesicle

Inflammation

Chronic, Minimal

* Spleen

Lymph Follic

Hyperplasia

Marked

[Hyperplasia TGLs = 2-6, 2-22]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 660

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|--------------------------|-------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Testes | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- | | |
|-----------------|----------|
| * Mammary Gland | * Thymus |
|-----------------|----------|

AUTO PRECLUDES DIAG.

- | | | | |
|---------------|--------------------------|-----------------------------|--------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
|---------------|--------------------------|-----------------------------|--------------------------|

INSUFFICIENT TISSUE

- * Intestine Small, Jejunum

OBSERVATIONS

- | | | | |
|---|---|--------------------------|---------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Brain | | Hemorrhage | Minimal |
| * Epididymis | | Inflammation | Granulomatous, Mild |
| Note: Lesion included cholesterol clefts. | | | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infarct | Moderate |
| | | Mineralization | Minimal |
| | [Infarct TGLs = 2-22] | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Carcinoma | Multiple |
| | [Basophilic Focus TGLs = 6-23] | | |
| | [Hepatocellular Carcinoma TGLs = 3-6, 4-21] | | |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 660

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104033

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Minimal
* Stomach, Forestomach		Pigmentation	Mild
		Erosion	Mild
	Epithelium	Hyperplasia	Mild
		Inflammation	Moderate
		Ulcer	Marked
	[Hyperplasia TGLs = 5-4]		
	[Inflammation TGLs = 5-4]		
	[Ulcer TGLs = 5-4]		
* Stomach, Glandular		Inflammation	Minimal
		Ulcer	Mild
	[Inflammation TGLs = 5-4]		
	[Ulcer TGLs = 5-4]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Stomach, Forestomach Ulcer

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 721

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------------------|----------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | Capsule | Hyperplasia | Mild |
| * Brain | | Hemorrhage | Minimal |
| * Epididymis | | Granuloma Sperm | Moderate |
| * Kidney | Renal Tubule | Cyst | Multiple |
| | | Infiltration Cellular | Mononuclear CI, Mild |
| | | Mineralization | Minimal |
| | | Nephropathy | Marked |
| | [Nephropathy TGLs = 3-5, 4-5] | | |
| * Liver | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | |
| | [Hepatocellular Adenoma TGLs = 7-23] | | |
| | [Hepatocellular Carcinoma TGLs = 6-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Preputial Gland | | Cyst | Mild |
| | | Inflammation | Chronic, Mild |
| | [Cyst TGLs = 1-8] | | |
| * Spleen | | Pigmentation | Mild |
| * Stomach, Forestomach | | Fibrosis | Mild |
| | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 721

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104034

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Ulcer	Mild
* Testes	Germinal Epith	Mineralization	Moderate
* Thymus		Atrophy	Minimal
		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Kidney Nephropathy
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic, Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Metaplasia	Osseous, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
Lymph Node		Hyperplasia	Lymphoid, Mild
		Pigmentation	Mild
		[Hyperplasia TGLs = 3-22]	
		[Pigmentation TGLs = 3-22]	
* Lymph Node, Mandibular		Pigmentation	Minimal
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Skin		Ulcer	Marked

Note: Ulceration covered by thick serocellular exudate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104035

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLs = 2-21]

* Spleen	Lymph Follicle	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Erosion	Mild
		Hyperplasia	Mild
		Inflammation	Mild

Note: Erosion-slide 4-1

[Hyperplasia TGLs = 5-23]

[Inflammation TGLs = 5-23]

* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 600

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Prostate | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Glandular | * Thyroid Gland | * Trachea |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | |
|--------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Small, Ileum |
|--------------------------|--------------------------|

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|--------------------------|--------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Brain | | Hemorrhage | Minimal |
| * Epididymis | | Inflammation | Chronic Active, Moderate |
| | | Necrosis | Mild |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Mineralization | Mild |
| | Papilla | Necrosis | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | [Hepatocellular Adenoma TGLs = 3-22, 4-23, 5-24] | | |
| | [Hepatocellular Carcinoma TGLs = 2-21] | | |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Hemorrhage | Minimal |
| | | Pigmentation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 600

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104036

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal
	[Hyperplasia TGLs = 6-25]		
	[Inflammation TGLs = 6-25]		
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Atrophy	Mild
		Cyst	Mild
* Urinary Bladder		Hemorrhage	Mild
		Necrosis	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Epididymis Inflammation

- Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pituitary Gland
- * Stomach, Forestomach
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Nose
- * Prostate
- * Stomach, Glandular
- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Pancreas
- * Seminal Vesicle
- * Testes
- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Parathyroid Gland
- * Skin
- * Trachea

MISSING

- * Mammary Gland

OBSERVATIONS

- * Adrenal Cortex
- * Islets, Pancreatic
- * Kidney
- * Liver
- * Lung
- * Lymph Node
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Preputial Gland
- Capsule
- Interstitial
- Alveolar Epith
- Hyperplasia
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Hepatocellular Adenoma
- Mixed Cell Focus
- Tension Lipidosis
- Hyperplasia
- Lymphoma Malignant
- Pigmentation
- Lymphoma Malignant
- Cyst
- Inflammation
- Mild
- Minimal
- Mononuclear CI, Mild
- Chronic, Marked
- Minimal
- Marked
- Minimal
- Mild
- Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104037

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLs = 1-8]

* Salivary Glands

* Spleen

* Thymus

* Thyroid Gland

Follicle

Infiltration Cellular

Pigmentation

Atrophy

Degeneration

Mononuclear CI, Minimal

Minimal

Mild

Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 568

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	Tissue NOS	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
-----------------	----------

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Epididymis		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Kupffer Cell	Hemorrhage	Mild
	[Hemorrhage TGLs = 2-21]	Pigmentation	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Infiltration Cellular	Histiocyte, Marked
	Note: Histiocytes contained intracytoplasmic eosinophilic crystalline material.		
	[Alveolar/Bronchiolar Carcinoma TGLs = 3-2, 4-2]		
	[Infiltration Cellular TGLs = 4-2]		
* Lymph Node, Mandibular		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 568

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104038

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Moderate
		Ulcer	Marked
	[Hyperplasia TGLs = 6-4]		
	[Inflammation TGLs = 6-4]		
	[Ulcer TGLs = 6-4]		
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Epididymis		Inflammation	Chronic, Mild
* Harderian Gland		Hyperplasia	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Fatty Change	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		Pigmentation	Minimal
		Foreign Body	Minimal
		Mineralization	Minimal
		Inflammation	Chronic, Mild
* Prostate			
* Spleen	Lymph Follic	Hyperplasia	Mild

Note: Eosinophilic focus-slide 21

[Hepatocellular Adenoma TGLs = 1-21]

Note: Foreign body-plant material (bedding or food).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104039

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Mild
	[Hyperplasia TGLs = 2-22]		
	[Inflammation TGLs = 2-22]		
	[Ulcer TGLs = 2-22]		
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
Time Report Requested: 15:47:52
First Dose M/F: 02/25/08 / 02/25/08
Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 491

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|------------------------|--------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Harderian Gland |
| * Heart | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Thymus | | | |

OBSERVATIONS

- | | | | |
|--|---------|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | | | |
| | | | |
| | | | |
| [Eosinophilic Focus TGLs = 10-24] | | | |
| [Hepatocellular Adenoma TGLs = 7-22, 8-23] | | | |
| [Hepatocellular Carcinoma TGLs = 9-6] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 6-21] | | | |
| * Preputial Gland | | Cyst | Mild |
| | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 491

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104040

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLs = 1-8]

* Thyroid Gland

Follicle

Hypertrophy

Minimal

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 598

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Seminal Vesicle | * Skin |
| * Testes | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|---|--------------|--------------------------|--------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Degeneration | Moderate |
| | | Mineralization | Minimal |
| * Liver | | Hepatocellular Carcinoma | |
| | | Necrosis | Focal, Marked |
| Note: Marked focal necrosis also observed on slide 6 | | | |
| [Hepatocellular Carcinoma TGLs = 1-21] | | | |
| [Necrosis TGLs = 4-23] | | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: Metastatic hepatocellular carcinoma also observed on slide 2 | | | |
| [Hepatocellular Carcinoma TGLs = 5-24, 6-25] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| Mesentery | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | | Inflammation | Chronic, Mild |
| Note: Chronic inflammation, moderate mesothelial cell hypertrophy and mild mesothelial cell hyperplasia observed on slide 7 | | | |
| [Hepatocellular Carcinoma TGLs = 3-22] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 598

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104041

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Fungus Inflammation	Acute, Mild
Note: G.M.S. stain positive for fungus			
* Prostate		Inflammation	Acute, Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follic	Atrophy Hematopoietic Cell Proliferation	Mild Moderate
* Stomach, Forestomach		Fibrosis	Minimal
	Epithelium	Hyperplasia Inflammation	Mild Mild
* Stomach, Glandular		Mineralization	Moderate
* Thyroid Gland	Follicle	Degeneration	Minimal
* Urin Bladder			

Note: Neutrophils and eosinophilic proteinaceous material observed in urinary bladder lumen on slide 8.2

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Necrosis

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Pituitary Gland | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|----------------------|--|------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | Interstitialium | Inflammation | Moderate |
| | Renal Tubule | Pigmentation | Marked |
| * Liver | | Basophilic Focus | |
| | | Hepatoblastoma | |
| | | Hepatocellular Carcinoma | |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatoblastoma TGLs = 1-21] | | |
| | [Hepatocellular Carcinoma TGLs = 2-22] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | [Alveolar/Bronchiolar Adenoma TGLs = 5-23] | | |
| | Lymph Node | | |
| | [Pigmentation TGLs = 4-8-1] | Pigmentation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104042

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Pigmentation	Moderate
* Parathyroid Gland		Cyst	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Testes	Germinal Epith	Atrophy	Mild
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung | * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland |
| * Skin | * Spleen | * Stomach, Glandular | * Testes |
| * Trachea | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--------------|----------------------------------|--|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Mild
Focal, Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Cyst | |
| | Pelvis | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Inflammation | Acute, Mild |
| | | Mineralization | Mild |
| | | Nephropathy | Mild |
| * Liver | | Eosinophilic Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | | [Eosinophilic Focus TGLs = 4-22] |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| | | | [Necrosis TGLs = 2-21] |
| * Nose | | Foreign Body | Mild |
| | | Inflammation | Acute, Minimal |
| | | Mineralization | Minimal |
| | | | Note: Eosinophilic proteinaceous material in nose-G.M.S. stain negative for fungus |
| * Pancreas | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104043

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
[Inflammation TGLs = 1-8]		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle		Inflammation	Acute, Marked
* Stomach, Forestomach		Squamous Cell Papilloma	
Note: Papilloma observed on slide 23			
* Thymus		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Urinary Bladder		Inflammation	Acute, Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Liver | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Seminal Vesicle |
| * Skin | * Spleen | * Testes | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|--------------|--------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | | |
| Note: TGL 3 = NCL | | | |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Harderian Gland | | Adenoma | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | | Infiltration Cellular | Histiocyte, Marked |
| Note: Histiocytes contained eosinophilic crystalline material | | | |
| [Alveolar/Bronchiolar Carcinoma TGLs = 1-22] | | | |
| [Infiltration Cellular TGLs = 2-21] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| [Hyperplasia TGLs = 4-24] | | | |
| * Stomach, Glandular | | Mineralization | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104044

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Cyst

Mild

* Thyroid Gland

Follicle

Hypertrophy

Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Gallbladder | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Parathyroid Gland | * Pituitary Gland |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|--------|------------------------------|-------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| Coagulating Gland | | Cyst | Marked |
| Note: Cuboidal cell lined cyst-fibrous connective tissue wall with granulomatous inflammation and hemorrhage. Macrophages-brown or grey intracytoplasmic pigment | | | |
| Note: Cyst lumen contained eosinophilic proteinaceous material with cholesterol clefts and scattered macrophages. | | | |
| [Cyst TGLs = 2-21] | | | |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Eye | Cornea | Inflammation | Acute, Mild |
| * Harderian Gland | | Adenoma | |
| [Adenoma TGLs = 5-12] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatocellular Adenoma | |
| Note: Basophilic focus-slide 24. | | | |
| [Hepatocellular Adenoma TGLs = 6-24] | | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Thrombosis | Minimal |
| [Alveolar/Bronchiolar Adenoma TGLs = 4-23] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104045

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric Mesentery [Necrosis TGLs = 3-22]	Fat	Hyperplasia Necrosis	Lymphoid, Moderate Mild
* Nose	Glands	Fibrosis	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follic	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Atrophy Cyst	Minimal Mild
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 589

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Seminal Vesicle | * Skin | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Degeneration | Mild |
| | | Mineralization | Minimal |
| * Liver | | Fatty Change | Marked |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Inflammation | Acute, Moderate |
| | Note: Eosinophilic proteinaceous material in nasal cavity. G.M.S. stain negative for fungus (slides 9 and 21) | | |
| * Pancreas | | Atrophy | Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Pigmentation | Moderate |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Marked |
| | | Inflammation | Mild |
| | | Ulcer | Mild |
| | | | |
| | [Hyperplasia TGLs = 2-4] | | |
| | [Ulcer TGLs = 2-4] | | |
| * Stomach, Glandular | | Inflammation | Acute, Minimal |
| * Thymus | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 589

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104046

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Cyst

Mild

Degeneration

Mild

Follicle

Hypertrophy

Minimal

PRIMARY CAUSE OF DEATH

- Nose Inflammation

CONTRIBUTORY CAUSE OF DEATH

- Kidney Renal Tubule Degeneration

- Liver Fatty Change

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Nose	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Esophagus		Mineralization	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Lymphoma Malignant	
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Lymphoma Malignant	
		Mixed Cell Focus	
[Lymphoma Malignant	TGLs = 6-23, 9-25]		
Lymph Node	Renal	Lymphoma Malignant	
	Iliac	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
[Lymphoma Malignant	TGLs = 3-22]		
[Lymphoma Malignant	TGLs = 2-21]		
[Lymphoma Malignant	TGLs = 5-7]		
[Lymphoma Malignant	TGLs = 8-3]		
* Lymph Node, Mandibular		Lymphoma Malignant	
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104047

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Also observed on slide 5

[Lymphoma Malignant TGLs = 7-24]

* Pancreas

Atrophy

Minimal

Lymphoma Malignant

* Parathyroid Gland

Cyst

Mild

* Preputial Gland

Cyst

Mild

Inflammation

Chronic, Mild

[Cyst TGLs = 4-8]

* Prostate

Lymphoma Malignant

* Salivary Glands

Lymphoma Malignant

* Seminal Vesicle

Lymphoma Malignant

* Spleen

Lymphoma Malignant

[Lymphoma Malignant TGLs = 1-6]

* Thymus

Lymphoma Malignant

* Thyroid Gland

Follicle

Hypertrophy

Mild

* Urinary Bladder

Lymphoma Malignant

Experiment Number: 20209 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
Time Report Requested: 15:47:52
First Dose M/F: 02/25/08 / 02/25/08
Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	Multiple
		Fatty Change	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Eosinophilic Focus TGLs = 3-23, 7-25]		
	[Hepatocellular Adenoma TGLs = 1-21, 4-24]		
	[Hepatocellular Carcinoma TGLs = 2-22]		
* Lung		Congestion	
		Hemorrhage	Minimal
	[Congestion TGLs = 5-5]		
	[Hemorrhage TGLs = 2-5]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104048

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Eosinophilic proteinaceous debris in nose-G.M.S.stain negative for fungus

* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Erosion	Moderate
	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
	[Erosion TGLs = 8-26]		
	[Hyperplasia TGLs = 8-26]		
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Urinary Bladder | | |

MISSING

- | | |
|-----------------|-----------|
| * Mammary Gland | * Trachea |
|-----------------|-----------|

OBSERVATIONS

- | | | | |
|--|--|--------------------------|-------------------------|
| * Adrenal Cortex | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | |
| | | Inflammation | Chronic, Mild |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Adenoma TGLs = 4-22] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21] | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | | Mineralization | Minimal |
| | | Thrombosis | Moderate |
| | [Hepatocellular Carcinoma TGLs = 5-24, 6-23, 7-25] | | |
| Lymph Node | | | |
| Note: Small lymph node in mesentery on slide 4-1.2 contained cells-metastatic hepatocellular carcinoma | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104049

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Congestion	Marked
		Hepatocellular Carcinoma	Metastatic (Liver)
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLs = 3-6]		
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Atrophy	Minimal
		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Esophagus | * Eye | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Seminal Vesicle | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|--------------------------------|----------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Brain | Meninges | Inflammation | Chronic, Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Harderian Gland | | Adenoma | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Mild |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | |
| | [Hepatocellular Adenoma TGLs = 2-22] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | | Hemorrhage | Mild |
| | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | | Infiltration Cellular | Histiocyte, Moderate |
| | Note: Histiocytes contained eosinophilic intracytoplasmic crystals | | |
| | Note: Metastatic hepatocellular carcinomas-intravascular tumor emboli and perivascular tumors | | |
| | [Alveolar/Bronchiolar Carcinoma TGLs = 4-2] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Foreign Body | Minimal |
| | | Inflammation | Acute, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104050

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Foreign body-brown linear material.

Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative.

* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin	Subcut Tiss	Inflammation	Chronic, Minimal
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Moderate
	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Moderate
	[Hemangiosarcoma TGLs = 2-23]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
	Note: slide 4-1		
	[Hyperplasia TGLs = 5-24]		
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Seminal Vesicle | * Skin |
| * Stomach, Glandular | * Testes | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Adenoma TGLs = 1-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Pancreas | | Atrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | | |
| Note: TGL 2 = NCL | | | |
| * Spleen | | Pigmentation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104051

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Minimal

[Hyperplasia TGLs = 3-23]

[Inflammation TGLs = 3-23]

Degeneration

Mild

* Thyroid Gland

Follicle

Follicle

Hypertrophy

Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung |
| * Lymph Node, Mandibular | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | | Hypertrophy | Mild |
| | | Inflammation | Chronic, Mild |
| | [Hepatocellular Adenoma TGLs = 5-6, 6-22, 7-23, 8-24] | | |
| * Lymph Node, Mesenteric | | Infiltration Cellular | Polymorphnuclr, Mild |
| | [Infiltration Cellular TGLs = 2-5] | | |
| * Pancreas | | Atrophy | Minimal |
| | Note: Atrophy observed on slide 4-1.1 | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 3-25] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104052

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal
* Thymus		Atrophy	Mild
		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Pituitary Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Inflammation	Chronic, Minimal
* Kidney	Renal Tubule	Cyst	
		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	Multiple
		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic, Minimal
Note: Additional clear cell foci observed on slide 21			
[Clear Cell Focus TGLs = 5-23]			
[Eosinophilic Focus TGLs = 1-6, 8-25]			
[Hepatocellular Adenoma TGLs = 2-6, 3-21, 4-22]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Lymph Node, Mandibular		Pigmentation	Minimal
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104053

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Inflammation	Chronic, Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
* Spleen	Lymph Follic	Atrophy	Mild
* Thymus		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric |
| * Nose | * Parathyroid Gland | * Pituitary Gland | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Minimal |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | Multiple |
| | | Eosinophilic Focus | Multiple |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
| | [Eosinophilic Focus TGLs = 4-24] | | |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23, 5-25] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | Note: Area of alveolar/bronchiolar epithelial hyperplasia was observed on slide 2. | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104054

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Minimal
		Cyst	Mild
		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Carcinoma	
		Infiltration Cellular	Mononuclear CI, Minimal
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104055

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, Mesenteric | * Nose | * Parathyroid Gland |
| * Prostate | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| * Testes | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|---------------|-----------------|
| * Gallbladder | * Mammary Gland |
|---------------|-----------------|

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|--|---------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Mild
Focal, Minimal |
| * Bone | | | |
| Note: TGL 4 = NCL | | | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Inflammation | Chronic, Minimal |
| [Hepatocellular Adenoma TGLs = 1-21, 2-22] | | | |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Minimal |
| | | Pigmentation | Minimal |
| * Pancreas | | Cyst | Mild |
| Note: Pancreas was present on slide 4. | | | |
| * Preputial Gland | | Inflammation | Chronic Active, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104055

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 3-23]		
* Stomach, Forestomach		Erosion	Moderate
	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
	[Erosion TGLs = 5-25]		
	[Hyperplasia TGLs = 5-25]		
	[Inflammation TGLs = 5-25]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 556

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric | * Nose |
| * Parathyroid Gland | * Seminal Vesicle | Skeletal Muscle | * Skin |
| Spinal Cord | * Stomach, Glandular | * Testes | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|--------------------------------|
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | [Clear Cell Focus TGLs = 3-23] | | |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22] | | |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Pancreas | | Atrophy | Mild |
| | | Inflammation | Granulomatous, Focal, Moderate |
| | | Mineralization | Moderate |
| | Note: Collection of large epithelioid type macrophages with grey/brown intracytoplasmic pigment. Macrophages surrounded mineralization. Fibrosis | | |
| Peripheral Nerve | | Degeneration | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 556

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104056

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Minimal
* Stomach, Forestomach		Erosion	Mild
	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 620

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-------------------|------------------------|----------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Trachea | | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | |

OBSERVATIONS

- | | | | |
|--|---------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Bone | | | |
| Note: TGL 1 = NCL | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | Papilla | Mineralization | Minimal |
| | | Necrosis | Marked |
| | | Nephropathy | Minimal |
| [Necrosis TGLs = 2-5] | | | |
| * Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | |
| [Hepatocellular Adenoma TGLs = 3-22] | | | |
| * Lymph Node, Mandibular | | Hemorrhage | Mild |
| | | Pigmentation | Mild |
| * Nose | | | |
| Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation. | | | |
| * Prostate | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 620

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104057

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 5-7]

* Thymus

Atrophy

Marked

Necrosis

Lymphoid, Mild

* Thyroid Gland

Follicle

Hypertrophy

Minimal

Urethra

Bulboureth GI

Inflammation

Mild

Bulboureth GI

Necrosis

Moderate

[Inflammation TGLs = 6-23]

[Necrosis TGLs = 6-23]

* Urinary Bladder

Necrosis

Mild

PRIMARY CAUSE OF DEATH

- Kidney Papilla Necrosis

CONTRIBUTORY CAUSE OF DEATH

- Urethra Bulboureth GI Necrosis

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Pancreas | * Pituitary Gland | * Preputial Gland | * Skin |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|--------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | Tail | Developmental Malformation | |
| Note: Cross section of tail contained 2 sections of coccygeal vertebra, One section dorsal (with hyperostosis) in dermis and surrounded by fibrous connective tissue.
[Developmental Malformation TGLs = 4-24] | | | |
| * Brain | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Adenoma also observed on slide 6.
[Hepatocellular Adenoma TGLs = 3-23]
[Hepatocellular Carcinoma TGLs = 1-21, 2-22] | | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: Metastatic hepatocellular carcinoma-intravascular tumor emboli. | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | Inflammation | Acute, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104058

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland		Cyst	Mild
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Seminal Vesicle		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Erosion	Moderate
	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
	[Hyperplasia TGLs = 5-25]		
	[Inflammation TGLs = 5-25]		
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Mild
		Cyst	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Skin | * Spleen | * Stomach, Glandular |
| * Testes | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|--------------------------|-----------------|
| * Intestine Small, Ileum | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- | | | | |
|---|--|------------------------|----------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | | |
| Note: TGL 8 = NCL | | | |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Mild |
| | | Nephropathy | Marked |
| | [Nephropathy TGLs = 3-5, 4-5] | | |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Hemorrhage | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Adenoma also observed on slide 6. | | | |
| | [Eosinophilic Focus TGLs = 6-22] | | |
| | [Hemorrhage TGLs = 5-21] | | |
| | [Hepatocellular Adenoma TGLs = 9-24, 10-25, 11-26] | | |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | | |
| Note: Eosinophilic hyaline material in nasal cavity. No inflammation. | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104059

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle		Inflammation	Chronic, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 626

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104060

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 | * Lung |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|---------------|-----------------|
| * Gallbladder | * Mammary Gland |
|---------------|-----------------|

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Marked |
| | [Nephropathy TGLs = 3-5] | | |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Hepatocellular Carcinoma | |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Carcinoma TGLs = 1-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | Inflammation | Acute, Minimal |
| * Preputial Gland | | Cyst | Mild |
| | | Inflammation | Chronic, Mild |
| | [Cyst TGLs = 2-8] | | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Minimal |
| * Thymus | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 626

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104060

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Seminal Vesicle |
| * Spleen | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|--|----------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | Tail | Callus | Minimal |
| | Tail | Developmental Malformation | |
| Note: Lesion included coccygeal vertebra that was sitting on skin surface surrounded by keratin, serocellular exudate, and bacteria.
[Callus TGLs = 4-24] | | | |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Focal, Minimal |
| | [Hepatocellular Adenoma TGLs = 3-23] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 2-22] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104061

ORGAN AND ACCOUNTABLE SITE STATUS

Mineralization Minimal

* Lym Node Mesen

Note: Processing artifact present in mesenteric lymph node slide 5. Additional tissue obtained from wet tissue, processed and examined microscopically.

* Lymph Node, Mandibular

Infiltration Cellular Polymorphnuclr, Moderate

Pigmentation Minimal

* Nose

Inflammation Acute, Minimal

Note: Eosinophilic proteinaceous material in nasal cavity with inflammation. Material was not present on G.M.S. stain.

* Pancreas

Inflammation Chronic, Minimal

Artery Mineralization Minimal

Note: Processing artifacts were present on slide 7. Additional pancreas was obtained from wet tissue, processed and examined microscopically.

* Prostate

Inflammation Chronic, Mild

* Salivary Glands

Infiltration Cellular Mononuclear Cl, Minimal

Inflammation Acute, Mild

Necrosis Minimal

* Skin

Inflammation Chronic, Minimal

* Stomach, Forestomach

Epithelium Hyperplasia Mild

Inflammation Mild

Ulcer Mild

[Hyperplasia TGLs = 5-25]

[Inflammation TGLs = 5-25]

[Ulcer TGLs = 5-25]

* Testes

Germinal Epith Atrophy Minimal

* Thymus

Atrophy Minimal

* Thyroid Gland

Follicle Hypertrophy Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 618

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Harderian Gland
- * Heart
- * Lymph Node, Mesenteric
- * Pancreas
- * Seminal Vesicle
- * Skin
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Pituitary Gland
- * Testes
- * Bone
- * Gallbladder
- * Intestine Large, Rectum
- * Prostate
- * Thyroid Gland

MISSING

- * Mammary Gland
- * Parathyroid Gland
- * Thymus

AUTO PRECLUDES DIAG.

- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Stomach, Glandular
- * Urinary Bladder

OBSERVATIONS

- * Epididymis
- * Islets, Pancreatic
- * Kidney
- * Liver
 - [Hepatocellular Carcinoma Kupffer Cell TGLs = 2-21]
 - Inflammation
 - Hyperplasia
 - Infiltration Cellular
 - Nephropathy
 - Hepatocellular Carcinoma
 - Pigmentation
 - Chronic, Minimal
 - Mild
 - Mononuclear CI, Minimal
 - Marked
 - Minimal
- * Lung
- * Lymph Node, Mandibular
- * Nose
- * Preputial Gland
 - [Cyst TGLs = 1-8]
 - Hemorrhage
 - Pigmentation
 - Foreign Body
 - Cyst
 - Mild
 - Minimal
 - Minimal
 - Mild
- * Salivary Glands
- * Spleen
- * Stomach, Forestomach
 - Infiltration Cellular
 - Mineralization
 - Hematopoietic Cell Proliferation
 - Hyperplasia
 - Inflammation
 - Mononuclear CI, Minimal
 - Mild
 - Moderate
 - Minimal
 - Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 618

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104062

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid GI

Note: Thyroid present on slide 3

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mesenteric
- * Mammary Gland
- * Pituitary Gland

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- * Adrenal Cortex
 - * Bone
 - * Kidney
 - * Liver
 - Tail
 - Renal Tubule
 - Hypertrophy
 - Callus
 - Cyst
 - Infarct
 - Infiltration Cellular
 - Metaplasia
 - Mineralization
 - Nephropathy
 - Eosinophilic Focus
 - Hepatocellular Adenoma
 - Focal, Minimal
 - Minimal
 - Mild
 - Mononuclear CI, Minimal
 - Osseous, Minimal
 - Minimal
 - Mild
 - Multiple
- Note: Enlarged, misshapened coccygeal vertebra was covered by dermis which contained brown pigment.
[Callus TGLs = 5-23]
- [Infarct TGLs = 1-5]
[Nephropathy TGLs = 1-5]
- [Eosinophilic Focus TGLs = 2-21]
[Hepatocellular Adenoma TGLs = 2-21, 3-22, 4-6]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104063

ORGAN AND ACCOUNTABLE SITE STATUS

* Lym Node Mesen

Note: Mesenteric lymph node-processing artifact prevent microscopic evaluation.

* Lymph Node, Mandibular

Pigmentation

Mild

* Nose

Foreign Body

Minimal

Inflammation

Acute, Mild

Note: Foreign body-linear basophilic material.

Note: Eosinophilic proteinaceous material present in nasal cavity. G.M.S. stain-negative for fungus.

* Pituitary Gl

Note: Processing artifact prevented microscopic evaluation.

* Prostate

Inflammation

Chronic, Minimal

* Stomach, Glandular

Mineralization

Minimal

* Thymus

Note: Processing artifact prevented microscopic evaluation.

* Thyroid Gland

Follicle

Hypertrophy

Mild

Animal Note: Due to processing artifact microscopic evaluation was not possible for the pituitary gland, thymus, and mesenteric lymph nodes. Tissues recorded as missing.

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|----------------------|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Carcinoma | |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Metaplasia | Osseous, Mild |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| | | | |
| | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
- [Carcinoma TGLs = 1-22]
- [Hepatocellular Adenoma TGLs = 2-21]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104064

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Pigmentation	Mild
* Nose		Foreign Body	
	Note: plant material		
	Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation		
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Minimal
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus			
	Note: Processing artifact prevented microscopic evaluation of the thymus. Thymus reported as missing.		
* Thyroid Gland	Follicle	Hypertrophy	Mild

Animal Note: Processing artifacts were observed on slides 3, 4, and 12 which necessitated repulling some tissues from wet tissues. Thymus-artifact-missing

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Nose | * Parathyroid Gland | * Pituitary Gland | * Seminal Vesicle |
| * Skin | * Stomach, Glandular | * Testes | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Eye | Cornea | Inflammation | Chronic Active, Mild |
| * Harderian Gland | | Adenoma | |
| [Adenoma TGLs = 7-27] | | | |
| * Kidney | Renal Tubule | Dilatation | Mild |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| [Eosinophilic Focus TGLs = 1-21, 3-22] | | | |
| [Hepatocellular Adenoma TGLs = 1-21, 4-23, 5-24, 6-25, 10-29] | | | |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Pancreas | | Cyst | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104065

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation Chronic, Minimal

Note: Cyst observed on slide 4

Cyst Mild

Inflammation Chronic, Minimal

* Preputial Gland

[Cyst TGLs = 2-8]

Inflammation Chronic, Minimal

* Prostate

Infiltration Cellular Mononuclear CI, Minimal

* Salivary Glands

Hematopoietic Cell Proliferation Minimal

* Spleen

Hyperplasia Moderate

* Stomach, Forestomach

Epithelium

Inflammation Minimal

[Hyperplasia TGLs = 9-28]

[Inflammation TGLs = 9-28]

Atrophy Mild

* Thymus

Cyst Mild

Hyperplasia Lymphoid, Minimal

* Thyroid Gland

Follicle

Hypertrophy Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Pituitary Gland
* Spleen	* Testes	* Trachea	* Urinary Bladder

MISSING

* Intestine Small, Ileum	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Epididymis		Inflammation	Chronic, Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	Multiple
		Fatty Change	Minimal
		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal

Note: Additional adenoma observed on slide 6.

[Hepatoblastoma TGLs = 3-22]

[Hepatocellular Adenoma TGLs = 4-23, 5-24, 6-25, 9-27]

[Hepatocellular Carcinoma TGLs = 1-21]

* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose			

Note: Eosinophilic proteinaceous material in nose-no inflammation.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104066

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Chronic, Minimal
* Preputial Gland		Cyst	Mild
		Inflammation	Chronic, Mild
	[Cyst TGLs = 2-8]		
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle		Inflammation	Chronic, Minimal
* Skin		Fibrosis	Mild
		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
* Stomach, Forestomach		Cyst	
	Note: Small cyst in submucosa-lined by keratinized stratified squamous epithelium (epithelial inclusion cyst-not available in LDASII).		
	[Cyst TGLs = 8-26]		
* Stomach, Glandular		Inflammation	Acute, Minimal
* Thymus		Atrophy	Mild
		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 708

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

MISSING

- * Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
		Nephropathy	Moderate
* Liver		Fatty Change	Minimal
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
	Kupffer Cell	Pigmentation	Minimal
Note: Hepatocellular carcinomas was similar to those seen in other animals and contained areas of necrosis, mineralization, and bile duct hyperplasia. [Hepatocellular Carcinoma TGLs = 2-21]			
* Lung		Hemorrhage	Mild
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pancreas		Atrophy	Minimal
* Preputial Gland		Cyst	Mild
[Cyst TGLs = 1-8]			
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Pigmentation	Mild
* Stomach, Forestomach		Erosion	Minimal
	Epithelium	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 708

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104067

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Mild

Ulcer

Moderate

Note: Ulcers also observed on slide 4-1

[Hyperplasia TGLs = 4-22]

[Ulcer TGLs = 4-22]

* Testes

Germinal Epith

Atrophy

Mild

* Thymus

Atrophy

Moderate

Cyst

Mild

* Trachea

Hemorrhage

Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Eye | * Gallbladder | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | Tail | Developmental Malformation | |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Esophagus | Muscularis | Degeneration | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Harderian Gland | | Hyperplasia | Marked |
| * Intestine Small, Ileum | | Lymphoma Malignant | |
| * Kidney | | Infiltration Cellular | Mononuclear Cl, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Nephropathy | Minimal |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Minimal |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | [Fatty Change TGLs = 1-6] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | [Alveolar/Bronchiolar Carcinoma TGLs = 3-2] | Infiltration Cellular | Histiocyte, Mild |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |
| | | Hyperplasia | Lymphoid, Mild |
| * Nose | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104068

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Eosinophilic proteinaceous and crystalline material present in nasal cavity-no inflammation

* Preputial Gland	Inflammation	Chronic, Mild
* Prostate	Inflammation	Chronic, Minimal
* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle	Inflammation	Chronic, Minimal
* Skin	Hyperkeratosis	Marked
	Inflammation	Chronic Active, Moderate
	Ulcer	Marked

Note: Tail (TGL 4-21) -lesion included protrusion of section of bone through the ulcerated skin.

[Hyperkeratosis TGLs = 4-21]

[Inflammation TGLs = 4-21]

[Ulcer TGLs = 4-21]

* Thyroid Gland	Follicle	Degeneration	Moderate
	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 603

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Nose | * Pancreas | * Pituitary Gland | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thyroid Gland | * Trachea | | |

MISSING

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

OBSERVATIONS

- | | | | |
|------------------------------------|--|------------------------|------------------|
| * Adren Cortex | | | |
| Note: Only 1 adrenal gland present | | | |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | Papilla | Mineralization | Mild |
| | | Necrosis | Marked |
| | [Necrosis TGLs = 7-5] | | |
| * Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22] | Mixed Cell Focus | |
| | [Mixed Cell Focus TGLs = 3-23] | | |
| * Lung | Alveolar Epith | Hyperplasia | Marked |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Necrosis | Lymphoid, Mild |
| Note: apoptosis | | | |
| * Nose | Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation. | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 603

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104069

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Cyst	Mild
		Inflammation	Chronic, Mild
[Cyst TGLs = 4-8]			
* Prostate		Inflammation	Acute, Minimal
		Necrosis	Mild
* Skin		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Mild
* Stom Forestom			
Note: TGL 9 = NCL			
* Thymus		Atrophy	Moderate
		Cyst	Mild
		Necrosis	Lymphoid, Mild
Urethra	Bulboureth GI	Cyst	Marked
		Inflammation	Acute, Minimal
		Necrosis	Minimal
Note: slide 24			
Note: slide 24			
[Cyst TGLs = 6-24]			
* Urinary Bladder		Necrosis	Minimal

PRIMARY CAUSE OF DEATH - Kidney Papilla Necrosis
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Heart
- * Intestine Small, Duodenum
- * Nose
- * Spleen
- * Trachea
- Blood Vessel
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Parathyroid Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pituitary Gland
- * Stomach, Glandular
- * Bone Marrow
- * Gallbladder
- * Intestine Large, Rectum
- * Lymph Node, Mesenteric
- * Seminal Vesicle
- * Testes

MISSING

- * Mammary Gland

OBSERVATIONS

- * Adrenal Cortex
- * Epididymis
- * Harderian Gland
- * Islets, Pancreatic
- * Kidney
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Pancreas
- * Preputial Gland
- Capsule
- Adenoma
- Inflammation
- Adenoma
- Hyperplasia
- Infiltration Cellular
- Mineralization
- Nephropathy
- Eosinophilic Focus
- Fatty Change
- Hepatocellular Adenoma
- Hypertrophy
- Centrilobular, Hepatocyte
- [Eosinophilic Focus TGLs = 8-6]
- [Hepatocellular Adenoma TGLs = 4-6, 3-21, 5-22, 6-23]
- Alveolar Epith
- Hyperplasia
- Pigmentation
- Inflammation
- Cyst
- Inflammation
- Chronic, Minimal
- Minimal
- Mononuclear CI, Minimal
- Minimal
- Minimal
- Minimal
- Minimal
- Minimal
- Multiple
- Minimal
- Minimal
- Minimal
- Chronic, Mild
- Mild
- Chronic, Minimal
- [Adenoma TGLs = 9-12]
- [Cyst TGLs = 1-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104070

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin	Subcut Tiss	Angiectasis	Focal, Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 591

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|-------------------|----------------------|---------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Islets, Pancreatic | * Lung |
| * Nose | * Pancreas | * Preputial Gland | * Prostate |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

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

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Spleen |
| * Thyroid Gland | | | |

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Mild |
| * Liver | | Fatty Change | Mild |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Hemorrhage | Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Stomach, Forestomach | | Inflammation | Mild |
| | | Ulcer | Mild |
| * Thymus | | Atrophy | Marked |
| | | Necrosis | Lymphoid, Moderate |
| Urethra | | Angiectasis | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 591

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104071

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLs = 4-21]

PRIMARY CAUSE OF DEATH - UNCERTAIN

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 596

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-------------------|---------------------|------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Esophagus | * Harderian Gland | * Heart |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Thymus | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|-------------------------|
| * Brain | | Hemorrhage | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23, 4-24, 5-25] | Mixed Cell Focus | |
| * Lung | | Mineralization | Minimal |
| * Lymph Node, Mandibular | | Hemorrhage | Moderate |
| | | Pigmentation | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| Note: slide 4-1.1 | | | |
| * Prostate | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 596

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104072

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Inflammation	Chronic, Minimal
* Spleen	Capsule	Fibrosis	Focal, Mild
	Capsule	Inflammation	Granulomatous, Focal, Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Seminal Vesicle | * Skin | * Stomach, Glandular |
| * Testes | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|--------------------------|--|--------------------------|-------------------------|
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Mild |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Carcinoma TGLs = 3-22] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | Pancreatic | Lymphoma Malignant | |
| | Bronchial | Lymphoma Malignant | |
| | Note: Lymph node slide 3-lymphoma malignant. | | |
| | [Lymphoma Malignant TGLs = 1-21] | | |
| | [Lymphoma Malignant TGLs = 4-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104073

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body Inflammation	Minimal Acute, Mild
Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative for fungus.			
* Pancreas		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular Mineralization	Mononuclear CI, Mild Minimal
* Spleen	Lymph Follic	Hematopoietic Cell Proliferation Hyperplasia Pigmentation	Moderate Moderate Minimal
* Stomach, Forestomach	[Hematopoietic Cell Proliferation TGLs = 2-6] Epithelium	Hyperplasia Inflammation Ulcer	Moderate Minimal Minimal
	[Hyperplasia TGLs = 6-24] [Inflammation TGLs = 6-24] [Ulcer TGLs = 6-24]		
* Thyroid Gland	Follicle	Hypertrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Seminal Vesicle | * Skin |
| * Testes | * Trachea | * Urinary Bladder | |

MISSING

- | | | |
|--------------|--------|-------------------|
| Blood Vessel | * Nose | * Pituitary Gland |
|--------------|--------|-------------------|

INSUFFICIENT TISSUE

- | | |
|----------------------------|----------|
| * Intestine Small, Jejunum | * Thymus |
|----------------------------|----------|

OBSERVATIONS

- | | | | |
|----------------------|---------------------------|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |

Note: TGL 6 (slide 26)-Processing artifact precluded diagnosis.

[Eosinophilic Focus TGLs = 2-22]

[Hepatocellular Adenoma TGLs = 1-21, 4-24, 6-26]

[Hepatocellular Carcinoma TGLs = 3-23]

- | | | | |
|--------------------------|--|--------------|---------|
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
|--------------------------|--|--------------|---------|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104074

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose

Note: Nose-processing artifact precluded evaluation of tissue. Nose tabulated as "missing"

* Pituitary Gland

Note: Pituitary gland was present but processing artifact precluded evaluation. Pituitary gland was recorded as "missing".

* Preputial Gland

Inflammation

Chronic, Mild

* Prostate

Inflammation

Chronic, Minimal

* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

* Spleen

Lymph Follic

Hyperplasia

Mild

* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

Inflammation

Mild

Ulcer

Mild

[Hyperplasia TGLs = 5-25]

[Inflammation TGLs = 5-25]

[Ulcer TGLs = 5-25]

* Stomach, Glandular

Fibrosis

Minimal

* Thymus

Note: Lymphoid tissue present on slide 3-2 but appeared to be lymph node.

* Thyroid Gland

Follicle

Hypertrophy

Minimal

Animal Note: The processing artifacts were usually slight and evaluation was possible except for the pituitary gland, nose, and TGL 6 in the liver (slide 26).

Animal Note: Processing artifact affected slides 1, 3-1, 4, 4-1, 5, 7, 9, 22, and 26. The remainder of the slides were unaffected.

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 692

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104075

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|-----------------|----------|
| * Mammary Gland | * Thymus |
|-----------------|----------|

OBSERVATIONS

- | | | | |
|--------------------------|--|---------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Vacuolization Cytoplasmic | Macrovesicular, Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Marked |
| | | Inflammation | Minimal |
| | | Squamous Cell Papilloma | |
| | | Ulcer | Mild |

Note: Most severe hyperplasia observed on slide 4-1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 692

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104075

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 3-23]

[Ulcer TGLs = 3-23]

* Testes

Abnormal Residual Body

Minimal

* Thyroid Gland

Follicle

Degeneration

Focal, Mild

Follicle

Hypertrophy

Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Nose | * Pancreas | * Pituitary Gland |
| * Preputial Gland | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | | |
|--------------------------|-----------------|---------------------|
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
|--------------------------|-----------------|---------------------|

INSUFFICIENT TISSUE

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | | |
| Note: TGL 4 = NCL, TGL 5 = NCL | | | |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | Multiple |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | |
| | | Inflammation | Chronic, Minimal |
| [Hepatocellular Adenoma | TGLs = 2-22, 3-23, 6-26] | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis | TGLs = 1-21] | | |
| * Parathyroid GI | | | |
| Note: Processing artifacts prevented microscopic evaluation | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104076

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate

Inflammation

Chronic, Minimal

* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

* Thyroid Gland

Follicle

Hypertrophy

Mild

Animal Note: Processing artifacts were observed on slides 1, 3, 3-1, 4, 4-1, 5, 6, 7, 8, 9, 21, 23, and 26.

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|---------------------------|----------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Mild
Focal, Minimal |
| * Bone | | | |
| Note: Bone, coccygeal vertebra present on slide 24. | | | |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| Note: Hypertrophied cells had microvesicular vacuolization. | | | |
| Note: Adenoma also observed on slide 6 | | | |
| [Hepatocellular Adenoma TGLs = 1-21] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Hyperkeratosis | Mild |
| | | Inflammation | Acute, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104077

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperkeratosis TGLs = 5-24]

[Inflammation TGLs = 5-24]

* Spleen	Lymph Follic	Hyperplasia	Minimal
* Thymus		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild

Animal Note: Quality of slides 5, 6, 12, and 21 were not affected by the processing artifact.

Animal Note: Processing artifact was observed in slides 1, 2, 22, and 23. Requested tissues be repulled from wet tissue.

Animal Note: Processing artifacts were observed in slides 7, 10 but was able to evaluate tissues microscopically.

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland | * Skin |
| * Stomach, Glandular | * Testes | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|---------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | | |
| Note: TGL 5 = NCL | | | |
| * Harderian Gland | | Adenoma | |
| [Adenoma TGLs = 4-12] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Moderate |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | Multiple |
| | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | | Mixed Cell Focus | |
| Note: TGL 3-22 was composed of 2 foci. | | | |
| Note: Slide 21-processing artifact present but was able to evaluate slide microscopically. | | | |
| [Clear Cell Focus TGLs = 1-6, 3-22] | | | |
| [Eosinophilic Focus TGLs = 3-22] | | | |
| [Mixed Cell Focus TGLs = 2-21] | | | |
| * Lymph Node, Mandibular | | Hemorrhage | Moderate |
| | | Pigmentation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104078

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation Mineralization	Acute, Minimal Minimal
Note: Eosinophilic proteinaceous material present in nasal cavity. G.M.S. stain negative.			
Note: Eosinophilic proteinaceous material present in nasal cavity. G.M.S. stain negative.			
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Hyperplasia Pigmentation	Minimal Minimal
* Stomach, Forestomach		Inflammation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Degeneration	Moderate
Note: Processing artifact present but was able to evaluate slide microscopically.			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 564

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Epididymis | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Testes |
| * Trachea | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|----------|------------------------|------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | | |
| Note: Vertebra on slide 21. | | | |
| * Brain | Meninges | Inflammation | Acute, Mild |
| | Meninges | Thrombosis | Mild |
| * Heart | | Inflammation | Acute, Mild |
| | | Thrombosis | Marked |
| Note: Lesion included a large colony of Gram positive bacteria | | | |
| * Intestine Large, Rectum | Serosa | Fibrosis | Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Hydronephrosis | Mild |
| | Papilla | Inflammation | Acute, Mild |
| | | Mineralization | Mild |
| | | Nephropathy | Moderate |
| Note: Lesion included Gram positive bacteria
[Hydronephrosis TGLs = 3-5]
[Nephropathy TGLs = 4-5] | | | |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Hepatocellular Adenoma | Multiple |
| | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 564

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104079

ORGAN AND ACCOUNTABLE SITE STATUS

[Eosinophilic Focus TGLs = 6-23]

[Hepatocellular Adenoma TGLs = 5-22, 7-24]

* Lung		Hemorrhage	Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Marked
	[Hyperplasia TGLs = 8-25]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose			
Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation.			
* Pancreas		Atrophy	Mild
		Inflammation	Acute, Mild
		Necrosis	Mild
* Prostate		Fibrosis	Mild
		Inflammation	Chronic Active, Marked
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLs = 1-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
	[Hyperplasia TGLs = 10-26]		
* Thymus		Atrophy	Marked
		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
* Urinary Bladder		Fibrosis	Mild
		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH - Heart Thrombosis
CONTRIBUTORY CAUSE OF DEATH - Kidney Hydronephrosis
- Kidney Papilla Inflammation
- Kidney Nephropathy
- Prostate Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|---------------------------|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Brain | | Infiltration Cellular | Mononuclear CI, Minimal |
| Note: Processing artifact present but was able to evaluate microscopically. | | | |
| * Eye | | | |
| Note: Processing artifact present but was able to evaluate eyes microscopically. | | | |
| * Harderian Gland | | Hyperplasia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| Note: Unable to evaluate heart on slide 12 due to processing artifact. Additional heart tissue obtained from wet tissue, processed and evaluated microscopically. | | | |
| * Intestine Small, Jejunum | | Lymphoma Malignant | |
| [Lymphoma Malignant TGLs = 3-22] | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| Note: Kidney-Processing artifact present, but was able to evaluate microscopically. | | | |
| * Liver | Centrilobular, Hepatocyte | Hepatocellular Carcinoma | Moderate |
| | | Hypertrophy | Chronic, Mild |
| | | Inflammation | Chronic, Mild |
| | Kupffer Cell | Pigmentation | Mild |
| [Hepatocellular Carcinoma TGLs = 1-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104080

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolar Epith	Alveolar/Bronchiolar Carcinoma Hyperplasia Infiltration Cellular	Multiple Moderate Histiocyte, Moderate
Note: Mutiple areas of alveolar epithelial hyperplasia also present. [Alveolar/Bronchiolar Carcinoma TGLs = 4-2]			
* Lym Node Mesen			
Note: Mesenteric lymph node-Processing artifact present, but was able to evaluate microscopically.			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose		Inflammation	Acute, Minimal
* Pituitary Gl			
Note: Processing artifact was present, but was able to evaluate microscopically.			
* Preputial Gland		Cyst	Mild
[Cyst TGLs = 2-8]			
* Spleen		Pigmentation	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

- | | | | |
|------------------|-----------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | Interstitium | Inflammation | Chronic, Mild |
| | | Mineralization | Mild |
| | Papilla | Necrosis | Minimal |
| | | Nephropathy | Mild |
| | [Inflammation TGLs = 5-5] | | |
| * Liver | | Basophilic Focus | Multiple |
| | | Congestion | Minimal |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |

Note: Adenoma also observed on slide 6.1

[Basophilic Focus TGLs = 6-24, 10-27]

[Congestion TGLs = 6-24]

[Hepatocellular Adenoma TGLs = 1-21, 7-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104081

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Pigmentation	Mild
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 3-26, 4-23]		
* Nose		Inflammation	Acute, Moderate
	Note: Linear material		
	Note: Eosinophilic proteinaceous material mixed with inflammatory cells in nasal cavity-G.M.C. stain negative.		
	Note: Eosinophilic proteinaceous material in nasal cavity. G.M.S. stain negative for fungus.		
* Pancreas		Necrosis	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal
Tissue NOS	Abdominal	Fibrosis	Mild
	Fat	Necrosis	Mild
	Note: TGL 2-22 Consisted of mesenteric fat necrosis which was adhered to abdominal muscle by fibrous connective tissue.		
	[Fibrosis TGLs = 2-22]		
	[Necrosis TGLs = 2-22]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 557

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Prostate | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|--------------|------------------------------|------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Esophagus | Muscularis | Degeneration | Minimal |
| Note: slide 3-1 | | | |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | Renal Tubule | Adenoma | |
| | Renal Tubule | Dilatation | Minimal |
| | | Hyperplasia | Lymphoid, Mild |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| [Adenoma TGLs = 5-22] | | | |
| * Liver | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | |
| | | Inflammation | Chronic, Minimal |
| [Hepatocellular Adenoma TGLs = 6-23] | | | |
| [Hepatocellular Carcinoma TGLs = 1-21] | | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | Multiple |
| [Alveolar/Bronchiolar Adenoma TGLs = 8-25] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary GI | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 557

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104082

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Mammary gland not present-2 slides examined.

* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle		Dilatation	Marked
		Hemorrhage	Mild
	[Dilatation TGLs = 2-7]		
	[Hemorrhage TGLs = 3-7]		
* Spleen		Pigmentation	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild
Tooth		Malformation	Marked

Note: Tooth-malformation was observed on slide 9.

[Malformation TGLs = 7-9]

PRIMARY CAUSE OF DEATH	- Liver Hepatocellular Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Renal Tubule Adenoma
	- Liver Hepatocellular Adenoma
	- Lung Alveolar/Bronchiolar Adenoma
	- Tooth Malformation

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic, Minimal
* Heart		Hepatocholangiocarcinoma	Metastatic (Liver)
* Kidney		Hepatocholangiocarcinoma	Metastatic (Liver)
		Infiltration Cellular	Mononuclear CI, Minimal
	[Hepatocholangiocarcinoma TGLs = 3-5, 4-5, 5-25]		
* Liver		Hepatocellular Adenoma	
		Hepatocholangiocarcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Note: TGL 7-Morphology primarily that of hepatocellular carcinoma in liver. Metastases had primarily tubular pattern-cholangiocarcinoma		
	[Hepatocellular Adenoma TGLs = 8-22]		
	[Hepatocholangiocarcinoma TGLs = 7-21]		
* Lung		Hepatocholangiocarcinoma	Metastatic (Liver)
	[Hepatocholangiocarcinoma TGLs = 10-26, 11-27]		
Lymph Node	Mediastinal	Hepatocholangiocarcinoma	Metastatic (Liver)
	Thoracic	Hepatocholangiocarcinoma	Metastatic (Liver)
	Note: Metastatic cholangiocarcinoma observed in lymph nodes on slides 2, 3, 23		
* Lymph Node, Mandibular		Pigmentation	Minimal
Pleura		Hepatocholangiocarcinoma	Metastatic (Liver)
	[Hepatocholangiocarcinoma TGLs = 12-24]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104083

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Cyst	Mild
		Inflammation	Chronic, Minimal
[Cyst TGLs = 1-8]			
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
Skeletal Muscle		Hepatocholangiocarcinoma	Metastatic (Liver)
[Hepatocholangiocarcinoma TGLs = 9-23]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
		Ulcer	Mild
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Liver Hepatocholangiocarcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic, Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Lymphoma Malignant	
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic, Mild
	Kupffer Cell	Pigmentation	Moderate
	[Hepatocellular Adenoma TGLs = 4-22]		
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 3-23]		
* Nose		Foreign Body	Mild
		Inflammation	Acute, Mild
		Mineralization	Minimal

Note: Eosinophilic proteinaceous material in nose-G.M.S. stain negative for fungus.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104084

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 2-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLs = 6-24]		
	[Inflammation TGLs = 6-24]		
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Mild

Note: Thyroid follicle degeneration-enlarged irregular follicles filled with basophilic hyaline material.

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Esophagus | * Eye | * Gallbladder | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Minimal |
| * Brain | | Hemorrhage | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Harderian Gland | | Adenoma | |
| | [Adenoma TGLs = 5-23] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | [Basophilic Focus TGLs = 3-21] | Mixed Cell Focus | Multiple |
| | [Mixed Cell Focus TGLs = 4-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Mild |
| * Preputial Gland | | Cyst | Mild |
| | [Cyst TGLs = 1-8] | | |
| * Prostate | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104085

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Atrophy	Minimal
		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 689

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland
- * Pituitary Gland

OBSERVATIONS

- * Islets, Pancreatic
- * Kidney
- * Liver
- Centrilobular, Hepatocyte
- [Hepatocellular Carcinoma TGLs = 1-21]
- * Lymph Node, Mandibular
- * Preputial Gland
- [Cyst TGLs = 2-8]
- * Prostate
- * Spleen
- * Stomach, Forestomach
- Epithelium
- [Erosion TGLs = 4-4-1]
- [Hyperplasia TGLs = 4-4-1]
- Hyperplasia
- Infiltration Cellular
- Nephropathy
- Eosinophilic Focus
- Hepatocellular Carcinoma
- Hypertrophy
- Necrosis
- Pigmentation
- Cyst
- Inflammation
- Inflammation
- Hematopoietic Cell Proliferation
- Erosion
- Hyperplasia
- Inflammation
- Minimal
- Mononuclear Cl, Minimal
- Marked
- Minimal
- Focal, Minimal
- Minimal
- Mild
- Chronic, Mild
- Chronic, Minimal
- Mild
- Mild
- Marked
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 689

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104086

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 4-4-1]

* Stomach, Glandular

* Testes

* Thymus

Germinal Epith

Mineralization

Atrophy

Atrophy

Mild

Minimal

Marked

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 698

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104087

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland	* Trachea
-----------------	---------------------	-----------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Kidney	Papilla, Renal Tubule	Infiltration Cellular	Mononuclear CI, Mild
		Necrosis	Mild
		Nephropathy	Marked
[Nephropathy TGLs = 2-5, 3-5]			
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
[Clear Cell Focus TGLs = 1-21]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen	Lymph Follicle	Atrophy	Moderate
		Pigmentation	Minimal
* Thymus		Atrophy	Moderate
		Necrosis	Lymphoid, Moderate
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Seminal Vesicle | * Skin | * Spleen | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---------|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Casts Protein | Mild |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | Papilla | Necrosis | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Depletion Glycogen | Mild |
| | | Eosinophilic Focus | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Pancreas | | Atrophy | Mild |
| | | Cyst | Mild |
| | | Inflammation | Chronic, Minimal |
| * Preputial Gland | | Cyst | Mild |
| | | Fibrosis | Moderate |
| | | Inflammation | Chronic, Moderate |
| * Prostate | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104088

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Mineralization	Mild
* Thymus		Atrophy	Marked
		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Seminal Vesicle | * Skin | * Spleen |
| * Testes | * Thymus | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Mild |
| * Harderian Gland | | Adenoma | |
| | [Adenoma TGLs = 5-12] | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | [Alveolar/Bronchiolar Carcinoma TGLs = 4-2] | Infiltration Cellular | Histiocyte, Moderate |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | Inflammation | Acute, Minimal |
| | Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative. | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Preputial Gland | | Cyst | Mild |
| | [Cyst TGLs = 1-8] | Inflammation | Chronic, Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104089

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Moderate Mild
[Hyperplasia TGLs = 6-22]			
[Inflammation TGLs = 6-22]			
* Stomach, Glandular	Glands	Ectasia	Focal, Minimal
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 428

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104090

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|--------------------------|---------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Rectum | * Intestine Small, Ileum |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Pituitary Gland | * Seminal Vesicle | * Skin | * Testes |
| * Trachea | | | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | | | |
|---------------|--------------------------|--------------------------|----------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Jejunum |
| * Spleen | | | |

INSUFFICIENT TISSUE

- * Intestine Small, Duodenum

OBSERVATIONS

- | | | | |
|--|--------------|------------------------|----------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Islets, Pancreatic | | Hyperplasia | Marked |
| * Kidney | Renal Tubule | Hyperplasia | Minimal |
| | Papilla | Inflammation | Acute, Minimal |
| | Papilla | Mineralization | Mild |
| | | Necrosis | Minimal |
| Note: Mineralization-approximately 25% of tubules affected | | | |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | |
| Note: eosinophilic focus observed on slide # 22 | | | |
| [Clear Cell Focus TGLs = 9-24] | | | |
| [Hepatocellular Adenoma TGLs = 7-22] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 428

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104090

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLs = 3-21]			
* Parathyroid Gland		Adenoma	
Note: discrete nodule of proliferating chief cells			
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLs = 1-8]			
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Ulcer	Minimal
* Stomach, Glandular		Inflammation	Minimal
* Thymus		Atrophy	Marked
		Necrosis	Lymphoid, Minimal
* Thyroid Gland		Hypertrophy	Minimal
Tooth			
Note: Tooth-malformation			
Urethra		Inflammation	Acute, Moderate
	Bulboureth GI	Necrosis	Moderate
Note: Necrosis and acute inflammation included marked hemorrhage (not available in TDMS)			
Note: Skeletal muscle which surrounded bulbourethral gland-inflammation, acute mild and degeneration, mild			
[Inflammation TGLs = 6-23]			
[Necrosis TGLs = 6-23]			
* Urinary Bladder		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH - Urethra Bulboureth GI Necrosis

CONTRIBUTORY CAUSE OF DEATH - Urethra Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Epididymis		Inflammation	Chronic, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	Multiple
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Kupffer Cell	Pigmentation	Mild
	Note: Carcinoma-diffuse necrosis		
	Note: Carcinoma was diffusely necrotic.		
	[Hepatocellular Adenoma TGLs = 2-22, 3-6, 5-24]		
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
	[Hyperplasia TGLs = 4-23]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104091

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
* Stomach, Glandular		Mineralization	Mild
* Thyroid Gland	Follicular Cel	Adenoma	

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 540

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|-------------------|------------------------|-------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Harderian Gland |
| * Heart | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Skin | * Stomach, Forestomach | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Nose | * Spleen | * Stomach, Glandular | |

OBSERVATIONS

- | | | | |
|--|--|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Dilatation | Mild |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | |
| | [Hepatocellular Adenoma TGLs = 2-6] | | |
| | [Hepatocellular Carcinoma TGLs = 3-21] | | |
| * Lung | Alveolar Epith | Hyperplasia | Marked |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Ectasia | Moderate |
| | | Hemorrhage | Minimal |
| * Mammary GI | | | |
| Note: Mammary gland missing-2 slides examined. | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Seminal Vesicle | | Inflammation | Acute, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 540

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104092

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Marked

* Thyroid Gland

Follicle

Degeneration

Mild

Follicle

Hypertrophy

Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
 CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
 Time Report Requested: 15:47:52
 First Dose M/F: 02/25/08 / 02/25/08
 Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104093

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Harderian Gland	* Intestine Small, Ileum	* Mammary Gland	* Parathyroid Gland
-------------------	--------------------------	-----------------	---------------------

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Bone Marrow		Hemangiosarcoma	
* Epididymis		Inflammation	Chronic, Mild
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Inflammation	Chronic, Mild
		Mitotic Alteration	Minimal
	Note: Mitotic figures increased (1 to 6 per High Power Field). [Hepatocellular Adenoma TGLs = 3-21]		
	Lymph Node		
	Fat	Hemangiosarcoma	
* Lymph Node, Mandibular		Pigmentation	Mild
* Nose		Foreign Body	
		Inflammation	Acute, Minimal
	Note: Eosinophilic proteinaceous material mixed with inflammatory cells present in nasal cavity. Lesion not present on G.M.S. stain.		
* Pancreas	Artery	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104093

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Artery	Inflammation	Chronic, Minimal
[Ectasia TGLs = 2-8]		Necrosis	Mild
* Salivary Glands		Ectasia	Moderate
* Spleen		Infiltration Cellular	Mononuclear CI, Minimal
[Hemangiosarcoma TGLs = 1-6]		Hemangiosarcoma	
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|----------|------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Moderate |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Minimal |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Pancreas | | Atrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Mild |
| Note: Chronic inflammation included lymphocytes and eosinophils. Perifollicular distribution. | | | |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
* Intestine Small, Jejunum	Peyers Patch	Hyperplasia	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	Multiple
		Eosinophilic Focus	
		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Kupffer Cell	Pigmentation	Minimal
	[Clear Cell Focus TGLs = 4-23]		
	[Hepatocellular Adenoma TGLs = 1-21, 3-22]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose		Foreign Body	Mild
Note: Foreign body-plant material (bedding or food).			
* Preputial Gland		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104095

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLs = 2-8]

* Prostate

* Salivary Glands

* Seminal Vesicle

* Spleen

* Thymus

* Thyroid Gland

Lymph Follic

Follicle

Inflammation

Inflammation

Infiltration Cellular

Inflammation

Hyperplasia

Cyst

Hyperplasia

Hypertrophy

Chronic, Minimal

Chronic, Mild

Mononuclear CI, Minimal

Chronic, Minimal

Minimal

Mild

Lymphoid, Minimal

Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|-----------------|----------|
| * Mammary Gland | * Thymus |
|-----------------|----------|

OBSERVATIONS

- | | | | |
|--------------------------|--|--------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| | | Hypertrophy | Focal, Minimal |
| * Brain | | Metaplasia | Osseous, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Mild |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23, 6-25] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | Multiple |
| | | Infiltration Cellular | Histiocyte, Moderate |
| | [Alveolar/Bronchiolar Carcinoma TGLs = 4-2, 5-24] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | | |
| | Note: Hyaline eosinophilic material in nasal cavity-no inflammation. | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104096

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

* Spleen

Pigmentation

Minimal

* Thyroid Gland

Follicle

Hypertrophy

Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104097

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|---------------------------|--|---|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Mild
Focal, Minimal |
| * Bone | | | |
| Note: TGL 4 = NCL | | | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular
Mineralization
Nephropathy | Mononuclear CI, Minimal
Minimal
Minimal |
| * Liver | | Clear Cell Focus
Eosinophilic Focus
Fatty Change
Hepatocellular Adenoma
Hepatocellular Carcinoma | Multiple
Minimal
Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy
Inflammation | Mild
Chronic, Minimal |
| Note: TGL 1-21 was diffusely necrotic. Could see "ghosts" of trabecular pattern present
[Eosinophilic Focus TGLs = 7-24, 8-25]
[Hepatocellular Adenoma TGLs = 2-6, 8-25]
[Hepatocellular Carcinoma TGLs = 1-21] | | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | Multiple |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104097

ORGAN AND ACCOUNTABLE SITE STATUS

[Alveolar/Bronchiolar Carcinoma	TGLs = 5-23, 6-2]	Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Pancreas		Atrophy	Minimal
* Preputial Gland		Cyst	Mild
		Inflammation	Chronic, Mild
[Cyst	TGLs = 3-8]		
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin	Lip	Inflammation	Acute, Minimal
* Stomach, Glandular		Mineralization	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Minimal
Tooth			
Note: Tooth-malformation			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|---|------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Mild
Focal, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| * Lung | | Alveolar/Bronchiolar Carcinoma
Infiltration Cellular | Histiocyte, Minimal |
| | [Alveolar/Bronchiolar Carcinoma TGLs = 4-2] | | |
| * Lymph Node, Mandibular | | Lymphoma Malignant
Pigmentation | Moderate |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 2-5] | | |
| * Nose | | Inflammation | Acute, Mild |
| | Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative. | | |
| * Pancreas | | | |
| | Note: Pancreas-slide 4 | | |
| * Pituitary Gland | Pars Distalis | Cyst | Mild |
| * Spleen | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1-6] | | |
| * Thymus | | Lymphoma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104098

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLs = 3-3]

* Thyroid Gland

Follicle

Degeneration

Minimal

Follicle

Hypertrophy

Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 614

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|--------------|---------------------------|------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Rectum | * Islets, Pancreatic |
| * Lung | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | | |

MISSING

- | | |
|-----------------|-----------|
| * Mammary Gland | * Trachea |
|-----------------|-----------|

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | Urethra | |

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|--|--------------|----------------|-----------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Heart | | | |
| Note: Heart valve-area with basophilic stipling not present on Von Kossa and Gram stain slides. Von Kossa positive circles (out of plane of section) present-artifact. | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Inflammation | Acute, Moderate |
| | | Mineralization | Minimal |
| | Papilla | Necrosis | Marked |
| | | Nephropathy | Minimal |
| * Liver | Kupffer Cell | Pigmentation | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Marked |
| * Mammary GI | | | |
| Note: Mammary gland missing-2 slides examined. | | | |
| * Pancreas | | Atrophy | Minimal |
| | | Mineralization | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 614

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104099

ORGAN AND ACCOUNTABLE SITE STATUS

Note: atrophy and mineralization-slide 4-1

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Acute, Marked
* Thymus		Atrophy	Mild
		Necrosis	Lymphoid, Moderate
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Minimal
Urethra			
Note: TGL 2 = NCL			
* Urinary Bladder		Inflammation	Acute, Mild
		Necrosis	Mild

PRIMARY CAUSE OF DEATH - Prostate Inflammation

CONTRIBUTORY CAUSE OF DEATH - Kidney Papilla Necrosis

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|-----------------|-------------------|
| * Mammary Gland | * Pituitary Gland |
|-----------------|-------------------|

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | | |
| Note: TGL 4 = NCL | | | |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | Multiple |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Acute, Minimal |
| | [Alveolar/Bronchiolar Adenoma TGLs = 3-24] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Preputial Gland | | Cyst | Mild |
| | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104100

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follic	Hyperplasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
 CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
 Time Report Requested: 15:47:52
 First Dose M/F: 02/25/08 / 02/25/08
 Lab: SRI

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 431

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Esophagus	* Harderian Gland	* Heart	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Skin	* Stomach, Forestomach	* Testes

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Eye	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Spleen	* Stomach, Glandular	* Thymus	* Trachea

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Brain		Hemorrhage	Minimal
* Epididymis		Lymphoma Malignant	
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Lymphoma Malignant	
* Liver		Fatty Change	Moderate
	Centrilobular, Hepatocyte	Hepatocellular Adenoma	
	Note: Microvesicular vacuolization observed in some hypertrophied cells. [Hepatocellular Adenoma TGLs = 1-21]	Hypertrophy	Mild
* Lung		Lymphoma Malignant	
Lymph Node	Inguinal	Lymphoma Malignant	
	Note: inguinal lymph node (slide # 8-1)-lymphoma malignant		
* Lymph Node, Mandibular		Lymphoma Malignant	
		Pigmentation	Minimal
Mesentery		Lymphoma Malignant	
	Note: Marked infiltratration of lymphocytes in abdominal fat surrounding many organs including left kidney, seminal vesicles, testes		
* Prostate		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 431

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104101

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Lymphoma Malignant

* Seminal Vesicle

Lymphoma Malignant

* Skin

Note: Lesion observed on slide # 9

* Thyroid Gland

Follicle

Hypertrophy

Mild

* Urinary Bladder

Lymphoma Malignant

PRIMARY CAUSE OF DEATH

- Prostate Lymphoma Malignant

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 612

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * 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 | * Parathyroid Gland | * Prostate | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Glandular | * Testes |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|--|---------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| | | Mineralization | Minimal |
| Note: Mineralization in attached aorta | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Fatty Change | Mild |
| | | Hemorrhage | Minimal |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Hemorrhage | Mild |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Mineralization | Minimal |
| * Pancreas | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 612

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104102

ORGAN AND ACCOUNTABLE SITE STATUS

Peripheral Nerve		Degeneration	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
Spinal Cord		Degeneration	Mild
		Hemorrhage	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Atrophy	Moderate
		Inflammation	Granulomatous, Focal, Mild
		Necrosis	Lymphoid, Mild

Note: Granulomatous inflammation included linear and plant foreign material, mineralization, and cholesterol clefts

PRIMARY CAUSE OF DEATH - Spinal Cord Degeneration
 CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy
 - Thymus Inflammation

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Trachea | | | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | | |
|---------------|--------------------------|----------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Small, Jejunum |
|---------------|--------------------------|----------------------------|

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Mild |
| * Esophagus | Muscularis | Degeneration | Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | Kupffer Cell | Pigmentation | Mild |
| | [Clear Cell Focus TGLs = 4-23] | | |
| | [Hepatocellular Adenoma TGLs = 2-21, 5-24, 6-25, 7-26, 8-27] | | |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104103

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Mild
		Necrosis	Lymphoid, Moderate
* Thyroid Gland	Follicle	Hypertrophy	Minimal
Urethra		Hemorrhage	Minimal
		Inflammation	Acute, Mild
		Necrosis	Mild
* Urinary Bladder		Hemorrhage	Mild
		Inflammation	Acute, Minimal
		Necrosis	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

- Urinary Bladder Necrosis

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 551

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|--|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Eye | | Cataract | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | Multiple |
| | | Fatty Change | Moderate |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| Note: Adenomas also observed on slide 6 | | | |
| Note: Vacuolization was primarily Macrovesicular with lesser amounts of microvesicular vacuolization
[Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23, 4-24, 5-25] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 551

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104104

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Small amount of eosinophilic proteinaceous material in nasal cavity-no inflammation

* Pancreas		Inflammation	Chronic, Minimal
* Stomach, Glandular	Glands	Ectasia	Focal, Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Pituitary Gland |
| * Prostate | * Spleen | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | |
|--------------------------|-----------------|----------|
| * Lymph Node, Mesenteric | * Mammary Gland | * Thymus |
|--------------------------|-----------------|----------|

OBSERVATIONS

- | | | | |
|---|--|--------------------------|--------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Heart | | Mineralization | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Hyperplasia | Lymphoid, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatocellular Adenoma TGLs = 5-23, 7-25] | | |
| | [Hepatocellular Carcinoma TGLs = 4-22, 6-24] | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: Intravascular tumor emboli | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Fungus | |
| | | Inflammation | Acute, Mild |
| Note: G.M.S stain positive for fungus in eosinophilic proteinaceous material in nasal cavity. | | | |
| * Pancreas | | Atrophy | Mild |
| | | Inflammation | Chronic, Mild |
| * Parathyroid Gland | | Cyst | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104105

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Cyst	Mild
		Inflammation	Chronic, Mild
[Cyst TGLs = 3-8]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle		Inflammation	Chronic, Minimal
* Skin	Prepuce	Inflammation	Acute, Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
[Hyperplasia TGLs = 8-26]			
[Inflammation TGLs = 8-26]			
* Testes	Germinal Epith	Atrophy	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
Time Report Requested: 15:47:52
First Dose M/F: 02/25/08 / 02/25/08
Lab: SRI

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 715

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Nose	* Pancreas	* Salivary Glands	* Skin
* Testes	* Trachea		

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Eye	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mesenteric	* Pituitary Gland
* Seminal Vesicle	* Spleen	* Stomach, Glandular	* Thymus
* Urinary Bladder			

OBSERVATIONS

* Heart		Mineralization	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Hepatocellular Adenoma	Multiple
* Lung		Mineralization	Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Parathyroid Gland		Cyst	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Stomach, Forestomach		Erosion	Marked
	Epithelium	Hyperplasia	Mild
[Hyperplasia TGLs = 8-27]			
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|-----------------|----------|
| * Mammary Gland | * Spleen |
|-----------------|----------|

OBSERVATIONS

- | | | | |
|--------------------------|--|---------------------------|----------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Vacuolization Cytoplasmic | Minimal |
| * Kidney | | Infarct | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Mild |
| | | Inflammation | Marked |
| | [Inflammation TGLs = 7-5] | | |
| * Liver | | Hepatoblastoma | Multiple |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | Kupffer Cell | Pigmentation | Mild |
| | Note: Additional hepatoblastoma observed on slide 6. | | |
| | [Hepatoblastoma TGLs = 4-23] | | |
| | [Hepatocellular Adenoma TGLs = 1-21, 3-22, 5-24] | | |
| | [Hepatocellular Carcinoma TGLs = 6-25] | | |
| * Lymph Node, Mandibular | | Atrophy | Mild |
| | | Pigmentation | Minimal |
| * Nose | | Foreign Body | Minimal |
| | | Inflammation | Acute, Minimal |

Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative for fungus.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104107

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin	Lip	Mast Cell Tumor Benign	
Note: Mast cell tumor-Toluidine stain positive.			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Mild
	[Hyperplasia TGLs = 8-26]		
* Testes		Giant Cell	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatoblastoma
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma
 - Liver Hepatocellular Carcinoma
 - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * 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 | * Preputial Gland |
| * Prostate | * Seminal Vesicle | * Skin | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|----------------------------|--|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Heart | | Mineralization | Mild |
| * Kidney | | Infarct | Moderate |
| | | Metaplasia | Osseous, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Focal, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Adenoma TGLs = 2-22, 3-23, 4-24, 5-25] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | Inflammation | Acute, Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| Note: Inflammation slide 4 | | | |
| * Parathyroid Gland | | Cyst | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104108

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Lymph Follic	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
		Squamous Cell Papilloma	
		Ulcer	Mild
	[Hyperplasia TGLs = 7-26]		
	[Inflammation TGLs = 7-26]		
	[Squamous Cell Papilloma TGLs = 7-26]		
	[Ulcer TGLs = 7-26]		
* Stomach, Glandular	Glands	Ectasia	Focal, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 618

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|---|---|--|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Mild
Focal, Moderate |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Eye | Cornea
Cornea | Inflammation
Necrosis | Acute, Moderate
Moderate |
| Note: Surface epithelium of cornea not present-ulcer (not available in LDASII) | | | |
| * Harderian Gland | | Adenoma | |
| | [Adenoma TGLs = 9-12] | | |
| * Kidney | Renal Tubule | Degeneration
Infiltration Cellular
Nephropathy | Moderate
Mononuclear CI, Minimal
Minimal |
| | [Degeneration TGLs = 4-5] | | |
| | [Nephropathy TGLs = 4-5] | | |
| * Liver | Centrilobular, Hepatocyte
Kupffer Cell | Fatty Change
Hepatocellular Adenoma
Hypertrophy
Pigmentation | Mild
Multiple
Moderate
Minimal |
| | [Fatty Change TGLs = 7-6] | | |
| | [Hepatocellular Adenoma TGLs = 5-22, 6-6] | | |
| | [Hypertrophy TGLs = 7-6] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 618

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104109

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Hemorrhage	Mild
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Congestion	Minimal
		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-21]		
* Pancreas		Inflammation	Chronic, Minimal
* Spleen	Lymph Follicle	Atrophy	Mild
	[Atrophy TGLs = 2-6]		
* Stomach, Forestomach		Foreign Body	
	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
Note: Foreign body-hair shafts			
	[Foreign Body TGLs = 3-4-1]		
	[Hyperplasia TGLs = 3-4-1]		
	[Inflammation TGLs = 3-4-1]		
* Stomach, Glandular		Inflammation	Mild
		Necrosis	Mild
	[Inflammation TGLs = 3-4-1]		
	[Necrosis TGLs = 3-4-1]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH - Harderian Gland Adenoma
 CONTRIBUTORY CAUSE OF DEATH - Eye Cornea Inflammation
 - Eye Cornea Necrosis
 - Liver Hepatocellular Adenoma
 - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland | * Seminal Vesicle |
| * Stomach, Glandular | * Testes | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | Multiple |
| | | Hepatoblastoma | |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Intravascular hepatoblastoma observed on slide 6 | | | |
| Note: Additional adenomas observed on slides 6 and 21 (separate lesions from hepatoblastomas) | | | |
| [Hepatoblastoma TGLs = 1-21] | | | |
| [Hepatocellular Adenoma TGLs = 2-22, 3-23, 4-24, 5-25] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| Note: Histiocytes were large and contained eosinophilic intracytoplasmic crystals | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | Inflammation | Acute, Minimal |
| Note: Eosinophilic proteinaceous material in nasal cavity mixed with inflammation-G.M.S. stain negative for fungus. | | | |
| * Pancreas | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104110

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
Note: Minimal acute inflammation with bacteria also present in preputial gland.		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Inflammation	Acute, Moderate
		Ulcer	Marked
[Inflammation TGLs = 6-26]			
[Ulcer TGLs = 6-26]			
* Spleen	Lymph Follic	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal
[Hyperplasia TGLs = 8-27]			
[Inflammation TGLs = 8-27]			
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104111

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 | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Pituitary Gland | * Skin | * Stomach, Glandular |
| * Testes | * Trachea | * Urinary Bladder | |

MISSING

- | | | |
|---------------|----------------------------|-----------------|
| * Gallbladder | * Intestine Small, Jejunum | * Mammary Gland |
|---------------|----------------------------|-----------------|

OBSERVATIONS

- | | | | |
|---|---------------------------|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | | |
| Note: TGL 7 = NCL | | | |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| Note: Hyperplasia observed on slide 4.1 | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | | Hepatoblastoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Mild |

Note: TGL 5-tumor was diffusely necrotic

Note: TGL 5-25 was diffusely necrotic, could see "ghosts" of a trabecular pattern surrounded by a fibrous connective tissue wall with inflammation and mineralization

Note: TGL 5-25 was diagnosed as hepatoblastoma based on morphology of metastatic liver tumor in lung (hepatoblastoma).

[Hepatoblastoma TGLs = 5-25]

[Hepatocellular Adenoma TGLs = 1-21, 2-22, 4-24, 6-6]

[Hepatocellular Carcinoma TGLs = 3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104111

ORGAN AND ACCOUNTABLE SITE STATUS

[Hypertrophy TGLs = 6-6]

* Lung

Alveolar/Bronchiolar Adenoma

Hepatoblastoma

Metastatic (Liver)

[Alveolar/Bronchiolar Adenoma TGLs = 8-27]

* Lymph Node, Mandibular

Pigmentation

Mild

* Nose

Inflammation

Acute, Minimal

Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S stain negative for fungus.

* Pancreas

Inflammation

Chronic, Minimal

* Preputial Gland

Inflammation

Chronic, Mild

* Prostate

Inflammation

Chronic, Minimal

* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

* Seminal Vesicle

Inflammation

Chronic, Minimal

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

Inflammation

Minimal

* Thymus

Cyst

Mild

* Thyroid Gland

Follicle

Hypertrophy

Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* 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	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
		Hypertrophy	Focal, Mild
* Epididymis		Inflammation	Chronic, Minimal
* Heart	Artery	Mineralization	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Marked
		Inflammation	Chronic, Mild
	Kupffer Cell	Pigmentation	Minimal
	[Hepatocellular Adenoma TGLs = 1-21, 2-6, 3-22, 4-23, 6-25]		
	[Hepatocellular Carcinoma TGLs = 5-24]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104112

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

* Thymus

Atrophy

Minimal

* Thyroid Gland

Follicle

Hypertrophy

Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 708

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|-------------------|-------------------|-------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Harderian Gland |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Glandular | * Testes | * Trachea | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mesenteric | * Thymus | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Hepatoblastoma | Multiple |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Necrosis | Focal, Minimal |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatoblastoma TGLs = 1-21, 4-24] | | |
| | [Hepatocellular Adenoma TGLs = 2-22, 3-23, 5-25] | | |
| * Lung | | Mineralization | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Foreign Body | Mild |
| | | Inflammation | Acute, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 708

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104113

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Eosinophilic proteinaceous material mixed with inflammatory cells-G.M.S. stain negative for fungus. Foreign body-plant material (bedding or food).

* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Minimal
	[Hyperplasia TGLs = 7-26]		
	[Inflammation TGLs = 7-26]		
* Thyroid Gland	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH	- Liver	Hepatoblastoma
CONTRIBUTORY CAUSE OF DEATH	- Liver	Hepatocellular Adenoma
	- Liver	Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Pancreas | * Parathyroid Gland |
| * Skin | * Spleen | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatocellular Adenoma TGLs = 3-23, 4-24, 5-6] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 2-22] | | |
| | [Hypertrophy TGLs = 5-6] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104114

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Acute, Minimal
Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative for fungus.			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Seminal Vesicle		Inflammation	Chronic, Minimal
* Stomach, Forestomach		Erosion	Minimal
	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
	[Erosion TGLs = 7-25]		
	[Hyperplasia TGLs = 7-25]		
	[Inflammation TGLs = 7-25]		
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 716

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|---|--|---|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Minimal
Diffuse, Minimal |
| * Intestine Small, Duodenum | | Infiltration Cellular
Inflammation | Plasma Cell, Minimal
Mild |
| Note: slide 4-1 | | | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular
Mineralization
Nephropathy | Mononuclear CI, Minimal
Minimal
Minimal |
| * Liver | | Hepatoblastoma
Hepatocellular Adenoma
Hepatocellular Carcinoma | Multiple
Multiple |
| | Centrilobular, Hepatocyte
Kupffer Cell | Hypertrophy
Pigmentation | Marked
Minimal |
| Note: Carcinoma also observed on slide 6 | | | |
| [Hepatoblastoma TGLs = 3-22] | | | |
| [Hepatocellular Adenoma TGLs = 6-25] | | | |
| [Hepatocellular Carcinoma TGLs = 2-21, 4-23, 5-24] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary GI | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 716

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104115

ORGAN AND ACCOUNTABLE SITE STATUS

Note: 2 slides examined

* Nose		Foreign Body	Minimal
		Inflammation	Acute, Mild

Note: Foreign body-plant material (bedding or food). Eosinophilic proteinaceous material in nasal cavity. G.M.S. stain negative for fungus.

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
* Skin		Mineralization	Mild

Note: Mineralization-slide 9.

* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild

[Hyperplasia TGLs = 7-26]

* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Degeneration	Moderate
	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatoblastoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Glandular | * Testes | * Trachea |
| * Urinary Bladder | | | |

MISSING

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

OBSERVATIONS

- | | | | |
|--------------------------|--|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Focal, Minimal |
| | [Hepatocellular Adenoma TGLs = 4-23] | | |
| | [Hepatocellular Carcinoma TGLs = 2-21, 3-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | Foreign Body | Minimal |
| | | Inflammation | Acute, Mild |

Note: Eosinophilic proteinaceous material in nasal cavity did not contain fungi (G.M.S. stain negative).

Note: Foreign body-plant material (bedding or food).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104116

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLs = 5-24]		
	[Inflammation TGLs = 5-24]		
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Skin	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

- * Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Epididymis		Inflammation	Chronic, Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Marked
		Necrosis	Focal, Minimal
	Kupffer Cell	Pigmentation	Mild
Note: Two tumors on section of liver. [Hepatocellular Adenoma TGLs = 5-23, 6-24, 7-25] [Hepatocellular Carcinoma TGLs = 3-21, 4-22]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hyperplasia	Plasma Cell, Mild
* Nose			
Note: Nasal cavity contained eosinophilic proteinaceous material, but no inflammation was observed			
* Pancreas		Inflammation	Chronic, Mild
* Preputial Gland		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104117

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLs = 1-8]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
[Hyperplasia TGLs = 8-26]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Trachea |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|---------------------------|--------------------------|-------------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| Coagulating Gland | | Hepatoblastoma | Metastatic (Liver) |
| * Epididymis | | Hepatoblastoma | Metastatic (Liver) |
| | | Inflammation | Chronic, Mild |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Marked |
| * Liver | | Hepatoblastoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Mild |
| Note: Slide 23-hepatoblastoma cells present liver capsular surface | | | |
| [Hepatoblastoma TGLs = 1-21] | | | |
| [Hepatocellular Adenoma TGLs = 2-22, 3-23, 4-24] | | | |
| [Hepatocellular Carcinoma TGLs = 5-25] | | | |
| [Hypertrophy TGLs = 6-6] | | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104118

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Pigmentation	Mild
Mesentery		Hepatoblastoma	Metastatic (Liver)
		Hepatocellular Carcinoma	Metastatic (Liver)
Note: Slide 7.1 metastatic hepatocellular carcinoma in fat (intravascular tumor embolus). Slide 7 metastatic hepatoblastoma present in fat.			
* Nose		Inflammation	Acute, Mild
* Pancreas		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Mild
		Ulcer	Mild
Note: More severe hyperplasia present on slide 4-1			
		[Hyperplasia TGLs = 7-26]	
		[Ulcer TGLs = 7-26]	
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Minimal
		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Moderate
* Urinary Bladder		Hepatoblastoma	Metastatic (Liver)

PRIMARY CAUSE OF DEATH	- Liver	Hepatoblastoma
CONTRIBUTORY CAUSE OF DEATH	- Liver	Hepatocellular Adenoma
	- Liver	Hepatocellular Carcinoma
	- Liver	Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Moderate |
| | | Hepatoblastoma | |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Focal, Minimal |
| | [Hepatoblastoma TGLs = 1-21] | | |
| | [Hepatocellular Adenoma TGLs = 2-6, 3-6, 4-22, 5-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Congestion | Minimal |
| * Nose | | Inflammation | Acute, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104119

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative for fungus.

* Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 715

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

- * Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Brain		Necrosis	Mild
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney	Renal Tubule	Degeneration	Mild
		Mineralization	Minimal
	Papilla	Necrosis	Minimal
* Liver		Basophilic Focus	Multiple
		Clear Cell Focus	
		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Marked
	Kupffer Cell	Pigmentation	Minimal
Note: TGL 4 and 7- adenomas contained large areas of necrosis [Hepatocellular Adenoma TGLs = 4-21, 5-22, 6-6, 7-23, 8-24, 9-25, 10-6]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Nose		Inflammation	Acute, Minimal
Note: Eosinophilic proteinaceous material mixed with inflammatory cells-G.M.S. stain negative			
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 715

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104120

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Ulcer	Mild Minimal Mild
Note: Lesions also observed on slide 4-1			
[Hyperplasia TGLs = 11-27]			
[Ulcer TGLs = 11-27]			
* Stomach, Glandular		Erosion	Mild
* Testes	Germinal Epith	Abnormal Residual Body Atrophy Giant Cell	Minimal Minimal Minimal
* Thymus		Atrophy	Marked
Urethra	Bulboureth GI	Angiectasis Inflammation Necrosis	Marked Acute, Moderate Marked
[Angiectasis TGLs = 3-26]			
[Inflammation TGLs = 3-26]			
[Necrosis TGLs = 3-26]			

PRIMARY CAUSE OF DEATH - Urethra Bulboureth GI Necrosis

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

- Urethra Angiectasis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|--------------------------|-----------------|
| * Intestine Small, Ileum | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- | | | | |
|---|---------------------------|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Mild |
| * Bone | | | |
| Note: TGL 8 = NCL | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Hepatoblastoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Mild |
| Note: Additional carcinoma on slide 6. | | | |
| [Hepatoblastoma TGLs = 2-22] | | | |
| [Hepatocellular Adenoma TGLs = 1-21, 4-24, 5-25] | | | |
| [Hepatocellular Carcinoma TGLs = 3-23] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | | |
| Note: Small amount of eosinophilic proteinaceous material observed in nasal cavity, but no inflammatory cells present | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104121

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Cyst	Mild
		Inflammation	Chronic, Moderate
[Cyst TGLs = 6-8]			
* Prostate		Inflammation	Chronic, Mild
* Spleen	Lymph Follic	Hyperplasia	Mild
* Stomach, Forestomach		Erosion	Mild
	Epithelium	Hyperplasia	Moderate
		Inflammation	Minimal
[Erosion TGLs = 7-26]			
[Hyperplasia TGLs = 7-26]			
[Inflammation TGLs = 7-26]			
* Stomach, Glandular		Dilatation	Mild
Note: Cyst-like structure near border of forestomach and glandular stomach-back ground (slide 26)			
* Thymus		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------------------|----------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Eye | Retrobulbar | Inflammation | Acute, Minimal |
| * Kidney | | Infarct | Marked |
| | | Nephropathy | Mild |
| Note: Infarcts-bilateral | | | |
| * Liver | | Clear Cell Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Mild |
| | | Necrosis | Focal, Minimal |
| [Hepatocellular Adenoma TGLs = 2-22, 3-23] | | | |
| [Hepatocellular Carcinoma TGLs = 1-21] | | | |
| * Lung | | Hemorrhage | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Mild |
| | | Ulcer | Moderate |
| [Hyperplasia TGLs = 4-24] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104122

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 4-24]

[Ulcer TGLs = 4-24]

* Stomach, Glandular

Ulcer

Mild

* Thyroid Gland

Follicle

Hypertrophy

Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104123

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 |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Seminal Vesicle | * Skin | * Testes | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|---------------|-----------------|
| * Gallbladder | * Mammary Gland |
|---------------|-----------------|

OBSERVATIONS

- | | | | |
|--|---|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | Renal Tubule | Carcinoma | |
| | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| Note: Circumscribed solid carcinoma-round cells. Mitotic index ~1 to 5/HPF
[Carcinoma TGLs = 2-5] | | | |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Adenoma TGLs = 1-21, 3-6, 4-22, 6-24] | | |
| | [Hepatocellular Carcinoma TGLs = 5-23] | | |
| * Lung | | Fibrosis | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104123

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Lymph Follicle	Hyperplasia	Minimal
	Epithelium	Hyperplasia	Marked
		Inflammation	Mild
		Ulcer	Moderate
	[Hyperplasia TGLs = 7-25]		
	[Ulcer TGLs = 7-25]		
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy
 - Liver Hepatocellular Adenoma
 - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * 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 | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Glandular | * Testes | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Mild |
| * Bone | | | |
| Note: TGL 6 = NCL | | | |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | Multiple |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatocellular Adenoma TGLs = 1-21, 3-23, 4-24, 5-25] | | |
| | [Hepatocellular Carcinoma TGLs = 2-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Inflammation | Acute, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104124

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative for fungus.

* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Erosion	Marked
	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
	[Erosion TGLs = 7-27]		
	[Hyperplasia TGLs = 7-27]		
	[Inflammation TGLs = 7-27]		
* Thymus		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Testes	* Thymus	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic, Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Marked
		Inflammation	Chronic, Mild
	Kupffer Cell	Pigmentation	Minimal
	[Hepatocellular Adenoma TGLs = 1-22]		
* Lung		Mineralization	Mild
* Lymph Node, Mandibular		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 3-21]		
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follic	Atrophy	Minimal
	[Atrophy TGLs = 2-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104125

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicle	Hypertrophy	Mild
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Pancreas
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Trachea			

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Kidney	Papilla, Pelvis	Inflammation	Acute, Moderate
		Nephropathy	Moderate
* Liver		Hepatoblastoma	Multiple
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Marked
	Kupffer Cell	Pigmentation	Minimal

Note: Hepatoblastoma also observed on slide 6

Note: Adenoma also observed on slide 6

[Hepatoblastoma TGLs = 5-23]

[Hepatocellular Adenoma TGLs = 1-21]

[Hepatocellular Carcinoma TGLs = 4-22, 6-24, 7-25]

* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Angiectasis	Moderate
* Nose		Foreign Body	Minimal
		Inflammation	Acute, Minimal

Note: Foreign body-plant material (bedding or food). Eosinophilic proteinaceous material in nasal cavity. G.M.S. stain negative for fungus.

* Preputial Gland		Cyst	Mild
		[Cyst TGLs = 2-8]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104126

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Acute, Minimal
* Skin		Cyst Epithelial Inclusion	
Note: Slide 8			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
	[Hyperplasia TGLs = 8-26]		
	[Inflammation TGLs = 8-26]		
* Stomach, Glandular		Mineralization	Mild
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hypertrophy	Moderate
* Urinary Bladder		Inflammation	Chronic Active, Mild
		Necrosis	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatoblastoma
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- * Epididymis
 - Granular Cell Tumor Benign
 - Note: Granular cell tumor composed of large round to polygonal cells with abundant pale granular eosinophilic cytoplasm. small round nuclei. 0 mitotic figures/HPF
 - Note: Epididymal granular cell tumor PATHOLOGY OF THE MOUSE Maronpot, R.R., et. al. Cache Rive Press 1999. Vienna. pp 401, 403
- * Harderian Gland
 - Adenoma
 - [Adenoma TGLs = 9-12]
- * Heart
 - Mineralization Minimal
- * Kidney
 - Renal Tubule
 - Cyst
 - Infiltration Cellular Mononuclear CI, Minimal
 - Mineralization Minimal
 - Nephropathy Minimal
- * Liver
 - Hepatoblastoma Multiple
 - Hepatocellular Adenoma Multiple
 - Hepatocellular Carcinoma Multiple
 - Hypertrophy Marked
 - Centrilobular, Hepatocyte
 - Note: Additional adenoma observed on slide 6
 - [Hepatoblastoma TGLs = 2-21, 3-22]
 - [Hepatocellular Adenoma TGLs = 6-25, 7-26]
 - [Hepatocellular Carcinoma TGLs = 4-23, 5-24]
- * Lung
 - Hepatoblastoma Metastatic (Liver)
 - Note: Intravascular tumor emboli

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104127

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
Mesentery		Hepatoblastoma	Metastatic (Liver)
	Fat	Necrosis	Moderate
Note: slide 7.2			
[Necrosis TGLs = 8-7]			
* Nose			
Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation.			
* Preputial Gland		Cyst	Mild
		Inflammation	Chronic, Minimal
[Cyst TGLs = 1-8]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
		Ulcer	Minimal
* Stomach, Glandular		Ulcer	Minimal
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Liver Hepatoblastoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Hepatocellular Carcinoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Necrosis | Focal, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Adenoma TGLs = 2-6, 3-6, 4-6,5-21, 6-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | | |
| | Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative for fungus. | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Preputial Gland | | Cyst | Mild |
| | | Inflammation | Chronic, Minimal |
| | [Cyst TGLs = 1-8] | | |
| * Prostate | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104128

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Infiltration Cellular

Mononuclear CI, Minimal

* Skin

Mineralization

Mild

Note: slide 8-1.1

* Thymus

Cyst

Mild

* Thyroid Gland

Follicle

Hypertrophy

Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Skin | * Stomach, Glandular |
| * Testes | * Thymus | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Focal, Minimal |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatocellular Adenoma TGLs = 2-6, 3-6,1-21,4-22,6-24] | | |
| | [Hypertrophy TGLs = 6-24] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| * Nose | | | |
| | Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative for fungus. | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104129

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Seminal Vesicle		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Hyperplasia	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
[Hyperplasia TGLs = 5-23]			
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Focal, Minimal
* Epididymis		Granuloma Sperm	Marked
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Mild
	[Hepatoblastoma TGLs = 6-24]		
	[Hepatocellular Adenoma TGLs = 5-23, 7-25]		
	[Hepatocellular Carcinoma TGLs = 3-21, 4-22]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Preputial Gland		Cyst	Mild
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104130

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular Mineralization	Mononuclear CI, Minimal Minimal
* Seminal Vesicle		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Minimal
* Stomach, Glandular		Inflammation	Minimal
* Stom Forestom			
Note: TGL 8 = NCL			
* Testes	Germinal Epith	Atrophy	Mild
* Thyroid Gland	Follicle	Hypertrophy	Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Eye | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung | * Nose |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Skin | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|-----------------|-------------------|
| * Mammary Gland | * Pituitary Gland |
|-----------------|-------------------|

OBSERVATIONS

- | | | | |
|--------------------------|---|-----------------------------------|------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Minimal |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Esophagus | Muscularis | Degeneration | Minimal |
| * Harderian Gland | | Hyperplasia | Moderate |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Marked |
| | [Nephropathy TGLs = 5-5] | | |
| * Liver | | Clear Cell Focus | |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Mild |
| | Note: Additional carcinoma-slide 6 | | |
| | [Hepatocellular Adenoma TGLs = 7-23] | | |
| | [Hepatocellular Carcinoma TGLs = 6-21, 8-22, 9-6] | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Lymph Node, Mesenteric | | Hemorrhage | Mild |
| * Prostate | | Atrophy | Mild |
| | [Atrophy TGLs = 3-7] | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104131

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle [Atrophy TGLs = 4-7]		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Ulcer	Mild Mild Mild
* Stomach, Glandular		Edema	Minimal
* Testes [Atrophy TGLs = 2-7]	Germinal Epith	Atrophy	Moderate
* Thymus [Atrophy TGLs = 10-3]		Atrophy	Marked
* Thyroid Gland	Follicular Cel	Adenoma	

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Focal, Minimal |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Mild |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicle | Hypertrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|------------------|---------------------------|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Moderate |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Minimal |

Note: Hepatocellular carcinoma-Similar to those in other animals-large areas of necrosis, bile duct hyperplasia, macrophages with green intracytoplasmic pigment.

[Hepatocellular Adenoma TGLs = 6-24, 8-26, 9-6]

[Hepatocellular Carcinoma TGLs = 4-22, 5-23, 7-25]

[Hypertrophy TGLs = 10-6]

Lymph Node

[Pigmentation TGLs = 2-8-1]

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

Pigmentation

Moderate

Pigmentation

Minimal

Hematopoietic Cell Proliferation

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104133

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Cyst	Mild
		Inflammation	Chronic, Mild
[Cyst TGLs = 3-8]			
* Prostate		Inflammation	Chronic, Minimal
* Seminal Vesicle		Inflammation	Chronic, Minimal
* Stomach, Forestomach		Erosion	Moderate
	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
[Erosion TGLs = 12-27]			
[Hyperplasia TGLs = 12-27]			
[Inflammation TGLs = 12-27]			
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Hypertrophy	Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 453

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Mild |
| * Liver | | Fatty Change | Moderate |
| | | Hepatoblastoma | |
| | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | [Hepatoblastoma TGLs = 5-24] | Hypertrophy | Marked |
| | [Hepatocellular Adenoma TGLs = 2-21,3-22, 4-23, 6-6, 7-25] | | |
| * Lung | | Hemorrhage | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | | |
| Note: Amorphous basophilic material present in nasal cavity-GMS stain negative for fungus. | | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Stomach, Forestomach | | Edema | Mild |
| | | Erosion | Minimal |
| | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Mild |
| | | Necrosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 453

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104134

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatoblastoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Seminal Vesicle | * Skin |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infarct | Mild |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Eosinophilic Focus | |
| | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | | Hypertrophy | Moderate |
| | [Eosinophilic Focus TGLs = 4-23] | | |
| | [Hepatocellular Adenoma TGLs = 2-21, 3-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | Mineralization | Mild |
| * Pancreas | | Atrophy | Mild |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

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Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104135

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Moderate Mild
[Hyperplasia TGLs = 5-24] [Inflammation TGLs = 5-24]			
* Stomach, Glandular		Mineralization	Mild
* Testes	Interstit Cell	Adenoma	
Note: Atrophy unilateral in testis with adenoma [Adenoma TGLs = 1-7]			
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- * Adrenal Cortex
- * Kidney
- * Liver
- * Lymph Node, Mandibular
- * Mesentery
- * Nose
- Capsule
- Renal Tubule
- Centrilobular, Hepatocyte
- Kupffer Cell
- [Hepatocellular Adenoma TGLs = 3-21, 5-23, 6-24]
- [Hepatocellular Carcinoma TGLs = 4-22, 7-25]
- [Necrosis TGLs = 8-27]
- Fat
- Hyperplasia
- Dilatation
- Infiltration Cellular
- Nephropathy
- Clear Cell Focus
- Fatty Change
- Hematopoietic Cell Proliferation
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Hypertrophy
- Inflammation
- Necrosis
- Pigmentation
- Pigmentation
- Necrosis
- Inflammation
- Mild
- Minimal
- Mononuclear CI, Minimal
- Minimal
- Minimal
- Minimal
- Minimal
- Multiple
- Multiple
- Marked
- Chronic, Minimal
- Focal, Minimal
- Mild
- Minimal
- Mild
- Minimal
- Mild
- Acute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104136

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative for fungus.

* Pancreas		Inflammation	Chronic, Minimal
* Preputial Gland		Cyst	Mild
	[Cyst TGLs = 2-8]		
* Skin		Fibrosis	Focal, Moderate
	[Fibrosis TGLs = 1-26]	Schwannoma Malignant	
	[Schwannoma Malignant TGLs = 1-26]		
* Spleen		Pigmentation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Mild
	[Hyperplasia TGLs = 9-28]		
	[Inflammation TGLs = 9-28]		
	[Ulcer TGLs = 9-28]		
* Thymus		Cyst	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 453

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Pituitary Gland
- * Trachea
- Blood Vessel
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Nose
- * Seminal Vesicle
- * Urinary Bladder
- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Pancreas
- * Skin
- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Parathyroid Gland
- * Stomach, Glandular

MISSING

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone
- Note: TGL 6 = NCL
- * Islets, Pancreatic
- * Kidney
- * Liver
- Centrilobular, Hepatocyte
- Note: Additional adenomas observed on slide # 6
- [Hepatocellular Adenoma TGLs = 2-21, 5-24]
- [Hepatocellular Carcinoma TGLs = 3-22]
- * Lung
- * Lymph Node, Mesenteric
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Spleen
- Capsule
- Hyperplasia
- Hyperplasia
- Infiltration Cellular
- Nephropathy
- Eosinophilic Focus
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Hypertrophy
- Hemorrhage
- Hyperplasia
- Ectasia
- Inflammation
- Inflammation
- Infiltration Cellular
- Hematopoietic Cell Proliferation
- Minimal
- Minimal
- Mononuclear CI, Minimal
- Minimal
- Multiple
- Multiple
- Multiple
- Marked
- Minimal
- Mild
- Mild
- Chronic, Minimal
- Chronic, Minimal
- Mononuclear CI, Mild
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 453

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104137

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Epithelium

Edema

Mild

Erosion

Mild

Hyperplasia

Moderate

Inflammation

Mild

Ulcer

Moderate

[Erosion TGLs = 4-23]

[Hyperplasia TGLs = 4-23]

[Inflammation TGLs = 4-23]

[Ulcer TGLs = 4-23]

* Testes

Germinal Epith

Atrophy

Minimal

* Thyroid Gland

Follicle

Hypertrophy

Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|------------------|--|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hepatocellular Carcinoma | Multiple |
| | Kupffer Cell | Hypertrophy | Mild |
| | [Hepatocellular Adenoma TGLs = 3-23, 4-24, 7-25] | Inflammation | Chronic, Minimal |
| | [Hepatocellular Carcinoma TGLs = 1-21, 2-22] | Pigmentation | Minimal |
| Lymph Node | Inguinal | Pigmentation | Moderate |
| | [Pigmentation TGLs = 6-8-1] | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicular Cel | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

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First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104138

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Degeneration

Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Prostate | * Seminal Vesicle | * Skin |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|---------------------------|--------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | | |
| Note: TGL 9 = NCL | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Mild |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Adenomas also observed on slide 6. | | | |
| [Hepatocellular Adenoma TGLs = 4-22, 5-23, 6-24, 7-25] | | | |
| [Hepatocellular Carcinoma TGLs = 3-21] | | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | | Infiltration Cellular | Histiocyte, Moderate |
| [Alveolar/Bronchiolar Carcinoma TGLs = 8-2] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104139

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Congestion	Mild
* Pancreas		Inflammation	Chronic, Mild
* Preputial Gland		Cyst	Mild
		Inflammation	Chronic Active, Mild
	[Cyst TGLs = 2-8]		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follicle	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Minimal
		Squamous Cell Papilloma	
		Ulcer	Minimal
	[Hyperplasia TGLs = 10-4-1, 10-27]		
	[Inflammation TGLs = 10-4-1, 10-27]		
	[Squamous Cell Papilloma TGLs = 4-1]		
	[Ulcer TGLs = 10-4-1, 10-27]		
* Testes	Germinal Epithelium	Atrophy	Minimal
* Thymus		Atrophy	Minimal
		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 627

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|-------------------|-----------------------------|----------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Small, Duodenum | * Islets, Pancreatic |
| * Lung | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Seminal Vesicle | * Spleen | * Stomach, Glandular |
| * Testes | * Trachea | | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|----------------------------|--------------------------|---------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | Papilla | Necrosis | Minimal |
| * Liver | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Necrosis | Focal, Minimal |
| | [Hepatocellular Adenoma TGLs = 5-21, 6-6, 7-22, 8-23, 9-6, 10-6] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | Subcut Tiss | Cyst | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 11-25] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 627

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104140

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
		Cyst	Mild
		Necrosis	Lymphoid, Moderate
* Thyroid Gland	Follicle	Hypertrophy	Minimal
Urethra	Bulboureth GI	Hemorrhage	Mild
	[Hemorrhage TGLs = 2-24]		
* Urinary Bladder		Necrosis	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Glandular | * Testes |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- | | | |
|---------------|--------------------------|-----------------|
| * Gallbladder | * Intestine Small, Ileum | * Mammary Gland |
|---------------|--------------------------|-----------------|

OBSERVATIONS

- | | | | |
|-------------------|---|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Harderian Gland | | Adenoma | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | Multiple |
| | | Fatty Change | Moderate |
| | | Hepatoblastoma | |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Mild |
| | | Necrosis | Focal, Minimal |
| | [Clear Cell Focus TGLs = 3-6] | | |
| | [Hepatoblastoma TGLs = 6-24] | | |
| | [Hepatocellular Adenoma TGLs = 1-21, 3-6, 4-22, 5-23, 7-25] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Infiltration Cellular | Histiocyte, Mild |
| | [Alveolar/Bronchiolar Adenoma TGLs = 8-26] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104141

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose			
Note: Small amount of eosinophilic amorphous/crystalline material in nose-No inflammation			
* Preputial Gland		Cyst	Mild
		Inflammation	Chronic, Mild
[Cyst TGLs = 2-8]			
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach		Erosion	Mild
		Foreign Body	
	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
Note: Small granuloma which surrounded hair shaft was also present on slide 27.			
[Erosion TGLs = 9-27]			
[Foreign Body TGLs = 9-27]			
[Hyperplasia TGLs = 9-27]			
[Inflammation TGLs = 9-27]			
* Thymus		Cyst	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 709

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104142

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 | * Pancreas |
| * Pituitary Gland | * Prostate | * Seminal Vesicle | * Skin |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|---------------------------|--------------------------|--------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Gallbladder | | Cyst | Mild |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Mild |
| | | Necrosis | Focal, Minimal |
| | Kupffer Cell | Pigmentation | Moderate |
| Note: Carcinoma also observed on slide 6 | | | |
| Note: adenomas observed on slide 6 | | | |
| [Hepatocellular Carcinoma TGLs = 1-21, 2-22] | | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Pigmentation | Mild |
| * Nose | | Foreign Body | Mild |
| Note: G.M.S. stain negative for fungus. Foreign body-plant material (bedding or food) stained G.M.S.positive. | | | |
| * Parathyroid Gland | | Cyst | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 709

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104142

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Mild
* Testes	Germinal Epith	Atrophy	Mild
		Giant Cell	Minimal
* Thymus		Atrophy	Marked
		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|----------------------|---------------------------|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Clear Cell Focus | Multiple |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Focal, Minimal |
| | Kupffer Cell | Pigmentation | Mild |

Note: Additional adenoma observed on slide 6
 [Hepatocellular Adenoma TGLs = 2-22, 4-24, 6-26]
 [Hepatocellular Carcinoma TGLs = 3-23, 5-25]

- | | | | |
|--------------------------|--------------------------|--------------|----------------|
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 1-21] | | |
| * Nose | | Inflammation | Acute, Minimal |

Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative for fungus.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104143

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
	[Hyperplasia TGLs = 7-27]		
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Minimal
		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Minimal
Tooth			

Note: Necrotic tooth with marked pyogranulomatous inflammation present.

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 708

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Nose | * Pancreas | * Parathyroid Gland |
| Penis | * Pituitary Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|----------------------------|---------------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| | | Hypertrophy | Diffuse, Mild |
| * Brain | | Hemorrhage | Minimal |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Kupffer Cell | Pigmentation | Mild |
| Note: Hepatocellular carcinoma also observed on slide 6 | | | |
| | [Hepatocellular Adenoma | TGLs = 2-22, 3-23, 4-24, 5-25, 6-26] | |
| | [Hepatocellular Carcinoma | TGLs = 1-21] | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Hepatocellular Carcinoma | Metastatic (Liver) |
| * Preputial Gland | | Cyst | Marked |
| | | Inflammation | Chronic Active, Mild |
| | | Necrosis | Minimal |
| | [Cyst | TGLs = 7-8] | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 708

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104144

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Serosa	Fibrosis	Mild
	Epithelium	Hyperplasia	Minimal
Note: Fibrosis-adhesion with liver			
* Stomach, Glandular	Serosa	Fibrosis	Mild
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Atrophy	Marked
		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung | * Nose | * Parathyroid Gland | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Hepatoblastoma | |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| Note: Additional carcinoma observed on slide 6. | | | |
| [Hepatoblastoma TGLs = 6-24] | | | |
| [Hepatocellular Adenoma TGLs = 3-21, 4-22, 5-23. 7-25] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |
| [Hemorrhage TGLs = 2-5] | | | |
| * Nose | | | |
| Note: Small amount of eosinophilic proteinaceous material observed in nasal cavity, but no inflammatory cells present. | | | |
| * Pancreas | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104145

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
		Ulcer	Minimal
	[Hyperplasia TGLs = 8-26]		
* Thymus		Atrophy	Moderate
		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104146

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

MISSING

- | | |
|---------------|-----------------|
| * Gallbladder | * Mammary Gland |
|---------------|-----------------|

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|--|---------------------------|---|---|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Mild
Diffuse, Minimal |
| Note: Zona fasciculata cell hypertrophy, 3 to 5 RBC thick (within normal limits) 6 to 8 RBC cell thick (minimal), 9 to 12 RBS thick (mild).
Note: RBC (red blood cells) | | | |
| * Kidney | Renal Tubule | Dilatation
Infiltration Cellular
Mineralization
Nephropathy | Minimal
Mononuclear CI, Minimal
Minimal
Mild |
| * Liver | Centrilobular, Hepatocyte | Eosinophilic Focus
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hypertrophy | Multiple
Marked |
| [Eosinophilic Focus TGLs = 1-21]
[Hepatocellular Adenoma TGLs = 3-22, 4-23, 6-25, 7-26]
[Hepatocellular Carcinoma TGLs = 5-24] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | Fungus | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104146

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Acute, Mild

Note: Eosinophilic proteinaceous material in nasal cavity contained G.M.S. stain positive fungi.

Inflammation

Chronic, Mild

* Preputial Gland

Inflammation

Chronic, Minimal

* Prostate

Hematopoietic Cell Proliferation

Mild

* Spleen

Mineralization

Mild

* Stomach, Glandular

Atrophy

Mild

* Testes

Germinal Epith

Hypertrophy

Mild

* Thyroid Gland

Follicle

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Bone			
Note: TGL 1 = NCL			
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Infiltration Cellular	Mononuclear CI, Minimal
		Pigmentation	Minimal
* Liver		Hepatoblastoma	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Marked
	Kupffer Cell	Pigmentation	Minimal
	[Hepatoblastoma TGLs = 9-23]		
	[Hepatocellular Adenoma TGLs = 8-22]		
	[Hepatocellular Carcinoma TGLs = 10-24, 11-25, 12-26]		
	Lymph Node	Pigmentation	Moderate
	[Pigmentation TGLs = 13-27]		
* Lymph Node, Mandibular		Pigmentation	Minimal
Mesentery	Artery	Inflammation	Chronic Active, Moderate
* Pancreas		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104147

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Cyst TGLs = 2-8]		Cyst	Mild
* Skin	Prepuce	Inflammation Inflammation	Acute, Minimal Acute, Mild
Note: Minimal acute inflammation observed on slide 21.			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Moderate Mild
	[Hyperplasia TGLs = 15-28]		
	[Inflammation TGLs = 15-28]		
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Skin | * Spleen | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|-----------------|----------|
| * Mammary Gland | * Thymus |
|-----------------|----------|

OBSERVATIONS

- | | | | |
|---|--|--------------------------|----------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| Blood Vessel | | | |
| Note: Two arteries in mesentery-slide 7 were hypertrophied with chronic inflammation. | | | |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Kidney | | Infarct | Mild |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatocellular Adenoma TGLs = 4-23, 5-24, 7-26] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 6-25] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Hemorrhage | Minimal |
| Mesentery | Artery | Inflammation | Chronic Active, Mild |
| | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-22] | | |
| * Nose | | Hemorrhage | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104148

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Cyst	Mild
		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Seminal Vesicle		Hemorrhage	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
	[Hyperplasia TGLs = 8-27]		
* Testes	Germinal Epith	Atrophy	Minimal
		Giant Cell	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Adrenal Cortex	Capsule	Adenoma	
	Capsule	Hyperplasia	Moderate
* Epididymis		Inflammation	Chronic, Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
	Interstitialium	Inflammation	Chronic, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Multiple
		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Marked
		Inflammation	Chronic, Minimal
		Necrosis	Focal, Mild

[Hepatoblastoma TGLs = 1-21]

[Hepatocellular Adenoma TGLs = 2-22, 4-24, 5-25]

[Hepatocellular Carcinoma TGLs = 3-23]

* Nose		Foreign Body	Minimal
		Inflammation	Acute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104149

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative.

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
* Stomach, Forestomach		Erosion	Moderate
	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
	[Erosion TGLs = 7-26]		
	[Hyperplasia TGLs = 7-26]		
	[Inflammation TGLs = 7-26]		
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|---|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Necrosis | Focal, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Clear Cell Focus TGLs = 6-6] | | |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23, 4-24, 5-25, 6-6] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Inflammation | Acute, Minimal |
| Note: Eosinophilic proteinaceous material in nasal cavity-G.M.S. stain negative for fungus. | | | |
| * Parathyroid Gland | | Cyst | Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Seminal Vesicle | | Inflammation | Chronic, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104150

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Mild

Ulcer

Moderate

[Hyperplasia TGLs = 7-26]

[Ulcer TGLs = 7-26]

* Thyroid Gland

Follicle

Cyst

Follicle

Degeneration

Minimal

Experiment Number: 20209 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
 CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
 Time Report Requested: 15:47:52
 First Dose M/F: 02/25/08 / 02/25/08
 Lab: SRI

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Epididymis		Fibrosis	Mild
		Inflammation	Chronic, Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Marked
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
Note: Basophilic focus-slide 24 [Hepatocellular Adenoma TGLs = 1-21, 3-22, 4-23, 5-24]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
		Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104151

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Spleen	Lymph Follicle	Hyperplasia	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Minimal
* Thymus		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Urinary Bladder | | |

MISSING

- | | |
|-----------------|-----------|
| * Mammary Gland | * Trachea |
|-----------------|-----------|

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|---------------------------------------|--|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Diffuse, Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Gallbladder | | | |
| Note: Gallbladder present on slide 22 | | | |
| * Heart | | Mineralization | Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Liver | | Hepatoblastoma | |
| | Centrilobular, Hepatocyte | Hepatocellular Carcinoma | |
| | | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatoblastoma TGLs = 1-21] | | |
| | [Hepatocellular Carcinoma TGLs = 2-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104152

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thyroid Gland

Follicle

Hypertrophy

Minimal

PRIMARY CAUSE OF DEATH

- Liver Hepatoblastoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Epididymis		Inflammation	Chronic, Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
	Kupffer Cell	Pigmentation	Minimal
	[Clear Cell Focus TGLs = 2-6]		
	[Hepatocellular Adenoma TGLs = 3-22]		
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Pigmentation	Mild
* Nose			
	Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation.		
* Pancreas		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follic	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104153

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Ulcer	Marked Mild Moderate
	[Hyperplasia TGLs = 4-4-1]		
	[Inflammation TGLs = 4-4-1]		
	[Ulcer TGLs = 4-4-1]		
* Thymus		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104154

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

MISSING

- | | | |
|---------------|-----------------|-------------------|
| * Gallbladder | * Mammary Gland | * Pituitary Gland |
|---------------|-----------------|-------------------|

OBSERVATIONS

- | | | | |
|--|---------------------------|---|----------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Mild
Diffuse, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| * Liver | Centrilobular, Hepatocyte | Hepatocellular Adenoma
Hepatocellular Carcinoma
Hypertrophy | Multiple
Marked |
| Note: adenoma observed on slide 23 | | | |
| Note: Foreign body-plant material (bedding or food). | | | |
| [Hepatocellular Adenoma TGLs = 1-21,2-22,4-24] | | | |
| [Hepatocellular Carcinoma TGLs = 3-23] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Foreign Body | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia
Inflammation
Ulcer | Marked
Mild
Moderate |
| [Hyperplasia TGLs = 7-4-1] | | | |
| [Inflammation TGLs = 7-4-1] | | | |
| [Ulcer TGLs = 7-4-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104154

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Cyst	
	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Focal, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Clear Cell Focus TGLs = 3-6] | | |
| | [Eosinophilic Focus TGLs = 2-6, 3-6] | | |
| | [Hepatocellular Adenoma TGLs = 4-22] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 5-23, 6-24] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | Inflammation | Acute, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104155

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Inflammation	Chronic, Minimal
* Prostate	Inflammation	Chronic, Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Testes	Angiectasis	Marked
[Angiectasis TGLs = 7-7]		
* Thymus	Cyst	Mild
* Thyroid Gland	Follicle Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
 CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
 Time Report Requested: 15:47:52
 First Dose M/F: 02/25/08 / 02/25/08
 Lab: SRI

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 536

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * 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 | * Preputial Gland | * Prostate |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

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

AUTO PRECLUDES DIAG.

- * Intestine Large, Cecum

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Diffuse, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | [Hepatocellular Carcinoma TGLs = 2-21, 3-22, 4-23, 5-24, 6-25] | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | Lymph Follic | Hyperplasia | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Marked |
| | | Inflammation | Mild |
| | | Squamous Cell Papilloma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 536

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104156

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 7-26]

[Inflammation TGLs = 7-26]

* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 530

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* 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, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
		Hypertrophy	Diffuse, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
		Mineralization	Mild
* Liver		Hepatocellular Carcinoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Marked
		Inflammation	Chronic, Mild
		Necrosis	Focal, Marked
	[Hepatocellular Carcinoma TGLs = 1-21, 2-22]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follicle	Atrophy	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
	[Hyperplasia TGLs = 3-4-1]		
	[Ulcer TGLs = 3-4-1]		
* Stomach, Glandular		Ulcer	Marked
	[Ulcer TGLs = 3-4-1]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 530

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104157

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 503

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|----------------------|-------------------|------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Harderian Gland |
| * Heart | * Islets, Pancreatic | * Kidney | * Lung |
| * Nose | * Pancreas | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |

INSUFFICIENT TISSUE

- * Parathyroid Gland
- * Pituitary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|----------------------------------|---------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Diffuse, Mild |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hepatocellular Carcinoma | |
| | [Hepatocellular Adenoma TGLs = 3-21, 5-6, 6-23] | Hypertrophy | Marked |
| | [Hepatocellular Carcinoma TGLs = 4-22] | | |
| | [Hypertrophy TGLs = 5-6] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stom Forestom | | | |
| Note: TGL 7 = NCL | | | |
| * Thyroid Gland | Follicle | Hypertrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 503

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104158

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 537

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104159

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, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Urinary Bladder

MISSING

* Gallbladder	* Intestine Large, Colon	* Mammary Gland	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
		Hypertrophy	Diffuse, Mild
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Basophilic Focus	
	Centrilobular, Hepatocyte	Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLs = 5-24]	Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLs = 2-21, 3-22, 4-23]	Hypertrophy	Marked
* Lymph Node, Mandibular		Pigmentation	Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Squamous Cell Papilloma	
* Testes		Abnormal Residual Body	Minimal
	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 527

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Gallbladder
- * Thymus
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Mammary Gland

OBSERVATIONS

- * Adrenal Cortex
 - Capsule
 - Hyperplasia
 - Hypertrophy
 - Vacuolization Cytoplasmic
 - * Liver
 - Hemorrhage
 - Hepatocellular Carcinoma
 - Hypertrophy
 - Pigmentation
 - Centrilobular, Hepatocyte
 - Kupffer Cell
 - * Spleen
 - Lymph Follic
 - Atrophy
 - * Stomach, Forestomach
 - Epithelium
 - Hyperplasia
 - Inflammation
 - * Stomach, Glandular
 - Erosion
- [Hemorrhage TGLs = 2-6]
 [Hepatocellular Carcinoma TGLs = 3-21, 4-22]
 [Hypertrophy TGLs = 2-6]
 [Atrophy TGLs = 1-6]
 [Hyperplasia TGLs = 5-23]
 [Inflammation TGLs = 5-23]
 [Erosion TGLs = 6-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 527

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104160

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Germinal Epith

Atrophy

Mild

Giant Cell

Minimal

* Thyroid Gland

Follicle

Hypertrophy

Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
 CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
 Time Report Requested: 15:47:52
 First Dose M/F: 02/25/08 / 02/25/08
 Lab: SRI

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Kidney	Renal Tubule	Dilatation	Minimal
Note: renal tubule dilatation: 1 to 2 x normal (minimal), 3 to 4 x normal (mild), 5 to 6 x normal (moderate, greater than 6 x normal (marked).			
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Marked
	Kupffer Cell	Pigmentation	Mild
	[Hepatocellular Adenoma TGLs = 2-22]		
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Polymorphnuclr, Mild
		Pigmentation	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Hemorrhage	Mild
	Epidermis, Tail	Hyperplasia	Minimal
		Inflammation	Acute, Minimal
		Thrombosis	Mild

Note: One artery which was directly under the area with inflammation, hemorrhage and epithelial hyperplasia contained a thrombus

Note: Skin (tail) epidermis hyperplasia 5 to 6 cells thick (minimal), 7 to 8 cells thick (mild), 10 to 12 cells thick (moderate), greater than 12 cells thick (marked)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104161

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLs = 4-23]

[Hyperplasia TGLs = 4-23]

[Inflammation TGLs = 4-23]

[Thrombosis TGLs = 4-23]

* Stomach, Forestomach

Epithelium

Hyperplasia

Minimal

* Thyroid Gland

Follicle

Hypertrophy

Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 492

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel
* Epididymis
* Islets, Pancreatic
* Pancreas
* Prostate
* Testes

* Bone
* Esophagus
* Kidney
* Parathyroid Gland
* Salivary Glands
* Thymus

* Bone Marrow
* Harderian Gland
* Lung
* Pituitary Gland
* Skin
* Trachea

* Brain
* Heart
* Nose
* Preputial Gland
* Stomach, Glandular

MISSING

* Gallbladder

* Mammary Gland

AUTO PRECLUDES DIAG.

* Adrenal Cortex
* Intestine Large, Colon
* Intestine Small, Jejunum

* Adrenal Medulla
* Intestine Large, Rectum
* Seminal Vesicle

* Eye
* Intestine Small, Duodenum
* Spleen

* Intestine Large, Cecum
* Intestine Small, Ileum
* Urinary Bladder

OBSERVATIONS

* Liver

Centrilobular, Hepatocyte

[Hepatocellular Adenoma TGLs = 4-6]

[Hepatocellular Carcinoma TGLs = 3-6, 5-21, 6-22, 7-23]

Hepatocellular Adenoma
Hepatocellular Carcinoma
Hypertrophy

Multiple
Marked

* Lymph Node, Mandibular
* Lymph Node, Mesenteric
* Stomach, Forestomach

[Squamous Cell Papilloma TGLs = 9-24]

Pigmentation
Hemorrhage
Squamous Cell Papilloma

Mild
Mild

* Thyroid Gland

Follicle

Hypertrophy

Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104163

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
* Nose	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Mammary Gland	* Parathyroid Gland
---------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
Blood Vessel			
Note: Slide 7-Artery in mesentery fat around pancreas had moderate chronic active inflammation and minimal necrosis. "polyarteritis"			
* Epididymis		Inflammation	Chronic, Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Marked
Note: Additional adenoma observed on slide 6			
	[Hepatocellular Adenoma	TGLs = 3-22, 4-23, 5-24]	
	[Hepatocellular Carcinoma	TGLs = 1-21, 6-25]	
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
		Mineralization	Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Atrophy	Mild
Mesentery	Artery	Inflammation	Chronic Active, Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104163

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia Ulcer	Moderate Mild
[Hyperplasia TGLs = 7-26]			
[Ulcer TGLs = 7-26]			
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 477

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|---------------------|--------------------------|----------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Epididymis | * Esophagus | * Harderian Gland | * Islets, Pancreatic |
| * Kidney | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Prostate |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | | | |

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Spleen | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--|---|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Minimal |
| * Brain | | Hemorrhage | Minimal |
| * Heart | | Mineralization | Minimal |
| * Liver | | Hepatoblastoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| Note: Carcinomas- pleomorphic hepatocytes 2-4 x larger than hypertrophied hepatocytes. granular cytoplasm, occassional microvesiculation. necrosis, mineralization | | | |
| | [Hepatoblastoma TGLs = 4-21] | | |
| | [Hepatocellular Adenoma TGLs = 6-23,7-24] | | |
| | [Hepatocellular Carcinoma TGLs = 3-6, 5-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Preputial Gland | | Cyst | Minimal |
| | [Cyst TGLs = 1-8] | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 477

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104164

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes		Giant Cell	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|--|--------------------------|------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Brain | | Hemorrhage | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: TGL 4 = NCL | | | |
| | [Hepatocellular Adenoma TGLs = 3-23, 5-24] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 2-22] | | |
| * Lung | | Mineralization | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Atrophy | Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Stomach, Forestomach | | Erosion | Mild |
| | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Mild |
| | [Erosion TGLs = 6-25] | | |
| | [Hyperplasia TGLs = 6-25] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104165

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 6-25]

* Thymus

Hemorrhage

Mild

* Thyroid Gland

Follicle

Hypertrophy

Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 500

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Brain
- * Eye
- * Harderian Gland
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Lung
- * Nose
- * Preputial Gland
- * Salivary Glands
- * Spleen
- * Stomach, Glandular
- * Urinary Bladder
- Blood Vessel
- * Epididymis
- * Heart
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Seminal Vesicle
- * Testes
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Islets, Pancreatic
- * Pituitary Gland
- * Skin
- * Trachea

MISSING

- * Mammary Gland

AUTO PRECLUDES DIAG.

- * Gallbladder
- * Intestine Small, Duodenum
- * Intestine Small, Ileum

OBSERVATIONS

- * Kidney
- * Liver
- Centrilobular, Hepatocyte
- [Hepatocellular Adenoma TGLs = 4-6]
- [Hepatocellular Carcinoma TGLs = 3-21, 5-22]
- [Hypertrophy TGLs = 4-6]
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- Note: Hemorrhage was observed on slide # 5.1
- * Prostate
- * Stomach, Forestomach
- Epithelium
- Infiltration Cellular
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Hypertrophy
- Pigmentation
- Hemorrhage
- Hemorrhage
- Inflammation
- Inflammation
- Hyperplasia
- Inflammation
- Ulcer
- Mononuclear CI, Minimal
- Multiple
- Marked
- Mild
- Marked
- Mild
- Chronic, Minimal
- Chronic, Minimal
- Moderate
- Minimal
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 500

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104166

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 6-23]

[Ulcer TGLs = 6-23]

* Thymus

Atrophy

Mild

Necrosis

Lymphoid, Moderate

Note: Atrophy included increased apoptosis

* Thyroid Gland

Follicle

Hypertrophy

Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Gallbladder
- * Mammary Gland
- * Thymus

OBSERVATIONS

- * Adrenal Cortex
- * Islets, Pancreatic
- * Kidney
- * Liver
- Capsule
- Renal Tubule
- Centrilobular, Hepatocyte
- Kupffer Cell
- Hyperplasia
- Hypertrophy
- Hyperplasia
- Dilatation
- Clear Cell Focus
- Hepatoblastoma
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Hypertrophy
- Inflammation
- Pigmentation
- Minimal
- Diffuse, Minimal
- Minimal
- Minimal
- Multiple
- Marked
- Chronic, Minimal
- Minimal

Note: Additional carcinoma observed on slide 6-1

[Hepatoblastoma TGLs = 1-21]

[Hepatocellular Adenoma TGLs = 3-22,4-23,5-24]

[Hepatocellular Carcinoma TGLs = 3-22, 4-23, 5-24]

* Lymph Node, Mandibular

* Nose

Pigmentation

Mild

Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104167

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Germinal Epith

Atrophy

Minimal

PRIMARY CAUSE OF DEATH

- Liver Hepatoblastoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 528

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Epididymis | * Esophagus | * Eye | * Gallbladder |
| * 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, Mesenteric |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|--|----------------------------------|------------------|
| * Adrenal Cortex | | Hypertrophy | Diffuse, Minimal |
| * Brain | | Hemorrhage | Mild |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| Note: Adenoma also observed on slide 6.1 | | | |
| | [Hepatocellular Adenoma TGLs = 3-22] | | |
| | [Hepatocellular Carcinoma TGLs = 2-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Foreign Body | Mild |
| Note: Foreign body-plant material (bedding or food). | | | |
| * Pancreas | | Degeneration | Moderate |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Testes | Germinal Epith | Atrophy | Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | Follicle | Hypertrophy | Mild |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
Time Report Requested: 15:47:52
First Dose M/F: 02/25/08 / 02/25/08
Lab: SRI

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 528

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104168

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma
 - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Bone

OBSERVATIONS

- | | | | |
|--|--|----------------------------------|------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Kidney | | Mineralization | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hepatocellular Carcinoma | Multiple |
| | [Hepatocellular Adenoma TGLs = 1-21,4-24,5-25] | Hypertrophy | Marked |
| | [Hepatocellular Carcinoma TGLs = 2-22, 3-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Foreign Body | Mild |
| Note: Foreign body-linear basophilic material. | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Minimal |
| | [Hyperplasia TGLs = 7-26] | | |
| | [Inflammation TGLs = 7-26] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104169

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Minimal

* Thyroid Gland

Follicle

Hypertrophy

Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104170

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	* Nose	* Pancreas
* Pituitary Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Mammary Gland	* Parathyroid Gland
---------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
Blood Vessel			
Note: Artery in mesentery adjacent to pancreas- moderate perivascular chronic active inflammation			
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
	[Hepatocellular Adenoma TGLs = 1-21,3-23,5-25]		
	[Hepatocellular Carcinoma TGLs = 2-22, 4-24]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Hemorrhage	Moderate
	[Hemorrhage TGLs = 6-5]		
Mesentery	Artery	Inflammation	Chronic Active, Moderate
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Testes	Germinal Epith	Atrophy	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104170

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 3

DOSE: 100 MG/KG

DISP: Dosing Accident

HISTO: 110520104171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | |
|---|--------------------------|----------------------------|
| * Esophagus | Inflammation
Necrosis | Acute, Minimal
Mild |
| Note: Lesion included mild edema
[Inflammation TGLs = 1-3]
[Necrosis TGLs = 1-3] | | |
| * Lung | Hyperplasia | Minimal |
| * Lymph Node, Mandibular | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | Hyperplasia | Lymphoid, Mild |
| Note: apoptotic | | |
| * Skin | Foreign Body | Moderate |
| Note: TGL 3-21 Cavitory lesion in skeletal muscle and subcutaneous fat. Cavity lined by pmns with plant material (food), bacteria and necrotic debris.
Note: TGL 2 = NCL
[Foreign Body TGLs = 3-21] | | |
| * Thymus | Atrophy
Necrosis | Moderate
Lymphoid, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 480

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104172

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

MISSING

- | | |
|---------------|-----------------|
| * Gallbladder | * Mammary Gland |
|---------------|-----------------|

INSUFFICIENT TISSUE

- | | | |
|--------------------------|----------|-----------|
| * Lymph Node, Mesenteric | * Thymus | * Trachea |
|--------------------------|----------|-----------|

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------|--------------------------|---------------|
| * Adrenal Cortex | Capsule | Fibrosis | Mild |
| | Capsule | Hemorrhage | Mild |
| | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Diffuse, Mild |
| | [Fibrosis TGLs = 6-10] | | |
| | [Hemorrhage TGLs = 6-10] | | |
| * Brain | | Hemorrhage | Minimal |
| * Heart | | Mineralization | Mild |
| Note: Von Kossa positive | | | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | Hepatocyte | Necrosis | Mild |

Note: Tumor cells pleomorphic, hypertrophied with occassional macrovesicular vacuolization. Marked coagulative necrosis in carcinomas

Note: Single cell necrosis

Note: Additioanl carcinoma on slide 6.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 480

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104172

ORGAN AND ACCOUNTABLE SITE STATUS

[Hepatocellular Carcinoma TGLs = 1-21, 2-22, 3-23,4-6, 5-24]

* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Atrophy	Mild
	[Atrophy TGLs = 9-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
		Ulcer	Mild

Note: Hyperplasia of stratified squamous epithelium (~8 to 10 cells thick) associated with areas of ulceration and inflammation.

Note: Forestomach lesions also observed on slide # 4-1

[Hyperplasia TGLs = 10-25]

[Inflammation TGLs = 10-25]

[Ulcer TGLs = 10-25]

* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Stomach, Forestomach Ulcer

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 442

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | | | |
|------------------|-------------------|-----------------|----------|
| * Adrenal Cortex | * Adrenal Medulla | * Mammary Gland | * Thymus |
|------------------|-------------------|-----------------|----------|

OBSERVATIONS

- | | | | |
|---|---------------------------|---|------------------------------------|
| * Intestine Small, Jejunum | Serosa | Adenoma
Fibrosis | Mild |
| Note: Fibrosis observed on slide # 21
[Adenoma TGLs = 4-21] | | | |
| * Kidney | Renal Tubule | Dilatation
Infiltration Cellular
Eosinophilic Focus | Minimal
Mononuclear CI, Minimal |
| * Liver | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| Note: Single cell necrosis
Note: Scattered hypertrophied cells had microvesiculated cytoplasm. | | | |
| * Lung | | Congestion | Mild |
| [Congestion TGLs = 6-2] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | | |
| Note: Eosinophilic proteinaceous material present in nasal cavity-no inflammation. | | | |
| * Spleen | Lymph Follic | Atrophy | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| Note: Squamous epithelium ~8 cells thick | | | |
| * Testes | Germinal Epith | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 442

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104173

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Hypertrophy

Minimal

PRIMARY CAUSE OF DEATH

- Intestine Small, Jejunum Adenoma

Experiment Number: 20209 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
 CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
 Time Report Requested: 15:47:52
 First Dose M/F: 02/25/08 / 02/25/08
 Lab: SRI

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Gallbladder
* 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, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Diffuse, Minimal
* Brain		Hemorrhage	Minimal
		Inflammation	Acute, Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Marked
	Kupffer Cell	Pigmentation	Minimal
Note: Adenoma also observed on slide 6			
[Hepatocellular Adenoma TGLs = 2-22,5-24,6-25]			
[Hepatocellular Carcinoma TGLs = 1-21, 3-23]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Prostate		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Ulcer	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104174

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Hypertrophy

Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104175

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

MISSING

- | | |
|---------------|-----------------|
| * Gallbladder | * Mammary Gland |
|---------------|-----------------|

OBSERVATIONS

- | | | | |
|--------------------------|--|---|---|
| * Kidney | Renal Tubule | Dilatation
Infiltration Cellular
Nephropathy | Minimal
Mononuclear CI, Minimal
Minimal |
| * Liver | Centrilobular, Hepatocyte | Clear Cell Focus
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hypertrophy | Multiple
Multiple
Moderate |
| | [Hepatocellular Adenoma TGLs = 3-23, 4-24] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 2-22] | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Pigmentation | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Moderate |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma
 - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 451

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------|--------------------------|------------------------|-------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Gallbladder |
| * Harderian Gland | * Intestine Large, Colon | * Islets, Pancreatic | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | | |
|--------------------------|-----------------|-------------------|----------|
| * Lymph Node, Mesenteric | * Mammary Gland | * Pituitary Gland | * Thymus |
|--------------------------|-----------------|-------------------|----------|

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Spleen | * Testes |

OBSERVATIONS

- | | | | |
|---|---|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| Note: Both adrenal glands present on slide # 10 and 10.1 | | | |
| * Heart | | Mineralization | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Mild focal necrosis-single cell necrosis of 25 to 50% of cells. | | | |
| | [Hepatocellular Adenoma TGLs = 2-22,6-25] | | |
| | [Hepatocellular Carcinoma TGLs = 2-21,5-24] | | |
| * Lung | | Congestion | Moderate |
| | | Hemorrhage | Moderate |
| | [Congestion TGLs = 9-2] | | |
| | [Hemorrhage TGLs = 8-2] | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Nose | | Inflammation | Acute, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 451

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104176

ORGAN AND ACCOUNTABLE SITE STATUS

Note: GMS stain negative

* Stomach, Glandular

* Thyroid Gland

Erosion

Hypertrophy

Moderate

Minimal

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Gallbladder

OBSERVATIONS

- | | | | |
|--|--|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | Tail | Callus | Mild |
| [Callus TGLs = 8-26] | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatoblastoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Adenoma also observed on slide 6 | | | |
| | [Hepatoblastoma TGLs = 1-21] | | |
| | [Hepatocellular Adenoma TGLs = 4-23] | | |
| | [Hepatocellular Carcinoma TGLs = 2-22, 3-23, 5-24] | | |
| | [Hypertrophy TGLs = 4-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 6-25] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104177

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Mild
		Ulcer	Mild
	[Hyperplasia TGLs = 9-27]		
	[Inflammation TGLs = 9-27]		
	[Ulcer TGLs = 9-27]		
* Stomach, Glandular		Mineralization	Mild
	Note: Mucosa Von Kossa positive for mineral		
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma
 - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * 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 |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Seminal Vesicle |
| * Skin | * Stomach, Glandular | * Testes | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| | | Hypertrophy | Diffuse, Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatocellular Adenoma TGLs = 4-23] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 2-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |
| | | Pigmentation | Minimal |
| * Nose | | Inflammation | Acute, Minimal |
| | Note: Eosinophilic proteinaceous material present in nasal cavity on H & E stained slide-not present on G.M.S. stained slide. | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104178

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Ulcer	Marked Mild Mild
[Hyperplasia TGLs = 6-25]			
[Inflammation TGLs = 6-25]			
[Ulcer TGLs = 6-25]			
* Thymus		Atrophy Infiltration Cellular	Moderate Histiocyte, Mild
* Thyroid Gland	Follicle Follicle	Degeneration Hypertrophy	Mild Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma
 - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 515

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland
- * Thymus

OBSERVATIONS

- * Adrenal Cortex
 - Capsule
- * Kidney
 - Degeneration
 - Hyperplasia
 - Hypertrophy
 - Nephropathy
- * Liver
 - Hepatocellular Adenoma
 - Hepatocellular Carcinoma
 - Hypertrophy
- [Hepatocellular Adenoma TGLs = 1-21, 4-22]
- [Hepatocellular Carcinoma TGLs = 2-6, 3-6, 5-23]
- * Lung
 - Centrilobular, Hepatocyte
 - Hepatocellular Carcinoma
- * Lymph Node, Mandibular
 - Pigmentation
- * Spleen
 - Hematopoietic Cell Proliferation
- * Stomach, Forestomach
 - Epithelium
 - Hyperplasia
 - Inflammation
- [Hyperplasia TGLs = 7-24]
- [Inflammation TGLs = 7-24]
- * Testes
 - Germinal Epith
 - Atrophy
- Note: Less than normal sperm present, Occasional tubule lined by 1-2 layers of cells.
- * Thyroid Gland
 - Follicle
 - Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 515

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104179

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 537

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Lymph Node, Mesenteric

OBSERVATIONS

- | | | | |
|--|--|----------------------------------|------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Diffuse, Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Scattered hypertrophied cells contained pale microvesiculated cytoplasm. | | | |
| | [Hepatocellular Adenoma TGLs = 4-23] | | |
| | [Hepatocellular Carcinoma TGLs = 2-21, 3-22, 5-24, 6-25] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | | Erosion | Moderate |
| | Epithelium | Hyperplasia | Marked |

Note: Lesions also observed on slide 4-1.

[Erosion TGLs = 8-26]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 537

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104180

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 8-26]

* Thymus

Atrophy

Marked

* Thyroid Gland

Follicle

Hypertrophy

Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104181

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
* Lymph Node, Mesenteric	* Nose	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
---------------	--------------------------	-----------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
	Capsule	Hyperplasia	Mild
* Epididymis		Inflammation	Chronic, Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Marked
		Inflammation	Chronic, Minimal
	[Hepatocellular Adenoma TGLs = 2-22, 3-23, 4-24, 5-25]		
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Lung		Hemorrhage	Minimal
* Pancreas		Inflammation	Chronic, Minimal
	Note: slide 4-1		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104181

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 3

DOSE: 100 MG/KG

DISP: Dosing Accident

HISTO: 110520104182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

INSUFFICIENT TISSUE

- * Thyroid Gland

OBSERVATIONS

- | | | |
|-------------|--------------|-------------|
| * Esophagus | Foreign Body | Marked |
| | Inflammation | Acute, Mild |
| | Necrosis | Moderate |

Note: Serosal surface covered with plant material (food) and bacteria.

[Foreign Body TGLs = 4-3]

[Inflammation TGLs = 2-3]

[Necrosis TGLs = 2-3]

- | | | |
|--------|--------------|-------------|
| * Lung | Foreign Body | Moderate |
| | Inflammation | Acute, Mild |

Note: Inflammation over entire pleural surface

Note: Plant material (food), bacteria, necrotic debris, and fibrin on pleural surface

[Foreign Body TGLs = 6-2]

[Inflammation TGLs = 5-2]

- * Lym Node Mand

Note: apoptotic

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 3

DOSE: 100 MG/KG

DISP: Dosing Accident

HISTO: 110520104182

ORGAN AND ACCOUNTABLE SITE STATUS

* Lym Node Mesen
Note: apoptotic

* Spleen

Lymph Follic

Hematopoietic Cell Proliferation
Hyperplasia

Mild

Mild

Note: apoptotic

* Thymus

Atrophy

Marked

Necrosis

Lymphoid, Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 501

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Hepatoblastoma | |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| Note: Lesions included necrosis, pigmentation, hemorrhage, and cytoplasmic vacuolization | | | |
| [Hepatoblastoma TGLs = 7-22] | | | |
| [Hepatocellular Carcinoma TGLs = 6-6, 4-23, 5-21] | | | |
| [Hypertrophy TGLs = 8-6] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Parathyroid GI | | | |
| Note: Section of parathyroid gland observed on slide # 3-1 | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Marked |
| | | Inflammation | Mild |
| | | Ulcer | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 501

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104183

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 9-24]

[Ulcer TGLs = 9-24]

* Thymus

Atrophy

Marked

* Thyroid Gland

Follicle

Hypertrophy

Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatoblastoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 530

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104184

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

MISSING

- | | |
|---------------|-----------------|
| * Gallbladder | * Mammary Gland |
|---------------|-----------------|

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hepatocellular Carcinoma | Multiple |
| | [Hepatocellular Carcinoma TGLs = 3-21, 4-22, 5-23, 6-24, 7-25] | Hypertrophy | Marked |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 8-26] | Inflammation | Minimal |
| | [Inflammation TGLs = 8-26] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | Follicle | Hypertrophy | Moderate |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
 CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
 Time Report Requested: 15:47:52
 First Dose M/F: 02/25/08 / 02/25/08
 Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Marked
	Kupffer Cell	Pigmentation	Minimal

Note: Hepatocellular adenoma also observed on slide 6.

[Hepatocellular Adenoma TGLs = 5-25]

[Hepatocellular Carcinoma TGLs = 2-22, 3-23, 4-24]

* Lung		Metaplasia	Osseous, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Pigmentation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

Note: Hyperplasia also observed on slide 4-1

[Hyperplasia TGLs = 7-27]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104185

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Hypertrophy

Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Hypertrophy | Focal, Minimal |
| * Kidney | | Inflammation | Chronic, Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hemorrhage | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hemorrhage TGLs = 4-6] | | |
| | [Hepatocellular Adenoma TGLs = 2-22, 3-23,6-25] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 5-24] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | | |
| | Note: aqmorphous basophilic material in nasal cavity-no inflammation. | | |
| * Pancreas | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104186

ORGAN AND ACCOUNTABLE SITE STATUS

Note: inflammation-slide 4-1

* Prostate		Inflammation	Chronic, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Stom Gland			

Note: Cyst-like structure near border between forestomach and glandular stomach-back ground.

* Thyroid Gland	Follicle	Hypertrophy	Mild
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PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 515

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104187

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, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Liver	Centrilobular, Hepatocyte	Hepatocellular Carcinoma	Multiple
[Hepatocellular Carcinoma	TGLs = 1-21, 2-6, 3-22, 4-6, 5-6]	Hypertrophy	Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
[Hyperplasia	TGLs = 8-23]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Mild |
| | [Basophilic Focus TGLs = 5-6] | | |
| | [Hepatocellular Adenoma TGLs = 5-6,6-23,4-25] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 7-24] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | Foreign Body | Mild |
| | | Inflammation | Acute, Mild |
| * Preputial Gland | | Cyst | Mild |
| | | Inflammation | Chronic, Mild |
| | [Cyst TGLs = 2-8] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104188

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Inflammation	Chronic, Minimal
* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
* Skin	Fibrosis	Mild
	Hyperkeratosis	Minimal
	Hyperplasia	Minimal
	Inflammation	Chronic Active, Mild
	Ulcer	Marked

Epidermis, Tail

Note: Vertebra extending through ulcerated epidermis. Lesion included epidermal hyperplasia, hyperkeratosis, and inflammation.

[Fibrosis TGLs = 3-22]

[Hyperkeratosis TGLs = 3-22]

[Hyperplasia TGLs = 3-22]

[Inflammation TGLs = 3-22]

[Ulcer TGLs = 3-22]

* Spleen	Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicle Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia Hypertrophy	Minimal Diffuse, Minimal
* Gallbladder			
Note: Gallbladder observed on slide 21			
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver	Centrilobular, Hepatocyte Kupffer Cell	Hepatocellular Carcinoma Hypertrophy Pigmentation	Multiple Marked Mild
[Hepatocellular Carcinoma TGLs = 1-21, 2-22, 3-23, 4-24, 5-25]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Nose			
Note: Eosinophilic proteinaceous material in nose-no inflammation.			
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Mineralization	Mild Mild Mild
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hypertrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104189

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| Note: adenoma observed on slide 6 | | | |
| [Hepatocellular Carcinoma TGLs = 2-22, 3-23, 4-24, 5-25] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Inflammation | Acute, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Mild |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma
 - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104191

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, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Glandular | * Testes |
| Tissue NOS | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|---------------|-----------------|
| * Gallbladder | * Mammary Gland |
|---------------|-----------------|

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|--------------------------|--|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| | | Hypertrophy | Focal, Marked |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Minimal |
| | Note: adenoma-slide 6 | | |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23] | | |
| | [Hepatocellular Carcinoma TGLs = 4-24, 5-25] | | |
| * Lung | | Hemorrhage | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Prostate | | Inflammation | Granulomatous, Mild |
| * Salivary Glands | | Hyperplasia | Lymphoid, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104191

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Infiltration Cellular Hyperplasia Inflammation	Mononuclear CI, Minimal Marked Mild
[Hyperplasia TGLs = 7-26] [Inflammation TGLs = 7-26]			
* Thyroid Gland	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 451

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104192

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

MISSING

- | | |
|---------------|-----------------|
| * Gallbladder | * Mammary Gland |
|---------------|-----------------|

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------------------|-----------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Minimal
Diffuse, Minimal |
| * Intestine Small, Jejunum | | Carcinoma | |
| Note: Well formed glandular structure observed in blood vessel lumen-considered artifact, function of cut
[Carcinoma TGLs = 11-27] | | | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| Note: Hepatocellular adenoma also observed on slide # 6. | | | |
| Note: Tumors composed of pleomorphic cells, 2 to 4 x larger than hypertrophied cells. Tumor cells-granular cytoplasm. Scattered tumor cells-microvesiculation
[Hepatocellular Adenoma TGLs = 8-24, 9-25]
[Hepatocellular Carcinoma TGLs = 6-22, 7-23, 10-26] | | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| | Alveolar Epith | Hypertrophy | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | Inguinal | Hyperplasia | Lymphoid, Mild |
| [Hyperplasia TGLs = 2-8-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 451

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104192

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Ectasia	Mild
[Ectasia TGLs = 5-5]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 3-21]			
* Preputial Gland		Inflammation	Acute, Mild
Note: Stratified squamous lined duct filled with neutrophils and eosinophilic proteinaceous debris			
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLs = 4-6]			
* Testes	Germinal Epith	Atrophy	Moderate
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * 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, Mesenteric |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Mild |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Additional adenoma observed on slide 6 | | | |
| [Clear Cell Focus TGLs = 5-6] | | | |
| [Fatty Change TGLs = 4-6] | | | |
| [Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | | |
| Note: Eosinophilic proteinaceous and crystalline material in nasal cavity-ni inflammation. | | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | Lymph Follic | Hyperplasia | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104193

ORGAN AND ACCOUNTABLE SITE STATUS

Infiltration Cellular

Eosinophil, Moderate

[Hyperplasia TGLs = 6-24]

Hypertrophy

Minimal

* Thyroid Gland

Follicle

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

- | | | | |
|--|---|--|--|
| * Adrenal Cortex | Capsule | Degeneration
Hyperplasia
Hypertrophy | Fatty, Minimal
Minimal
Diffuse, Mild |
| Note: Hypertrophied cells were 6-10 rbc wide | | | |
| * Brain | | Cyst Epithelial Inclusion | Marked |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Adenoma TGLs = 2-21, 3-22] | | |
| | [Hepatocellular Carcinoma TGLs = 1-6, 4-23, 5-24] | | |
| Mesentery | | Inflammation | Chronic, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| * Testes | Germinal Epith | Atrophy | Mild |
| * Thyroid Gland | Follicle | Hypertrophy | Moderate |
| Tongue | | Angiectasis | Minimal |
| | [Angiectasis TGLs = 6-25] | | |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104194

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--|--|--|--------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Mild
Diffuse, Minimal |
| Note: Zona fasciculata cells were ~6-8 rbc wide | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatocellular Adenoma
Hepatocellular Carcinoma | Multiple
Multiple |
| | Centrilobular, Hepatocyte
Kupffer Cell | Hypertrophy
Pigmentation | Marked
Mild |
| | [Hepatocellular Adenoma TGLs = 5-24, 6-25] | | |
| | [Hepatocellular Carcinoma TGLs = 2-23, 3-21, 4-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Foreign Body
Inflammation | Mild
Acute, Minimal |
| Note: Foreign body-plant material (food or bedding). | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | Follicle | Hypertrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104195

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 477

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|--------------------------|----------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Kidney | | Mineralization | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatocellular Adenoma TGLs = 2-22, 4-23, 5-6, 6-24, 9-25] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Ectasia | Mild |
| * Preputial Gland | | Cyst | Minimal |
| | [Cyst TGLs = 7-8] | | |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | Follicle | Hypertrophy | Mild |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Testes |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|--------------------------|-----------------|
| * Intestine Small, Ileum | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Mild |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Adenoma TGLs = 1-22, 2-22] | | |
| | [Hepatocellular Carcinoma TGLs = 3-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Hemorrhage | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | | Erosion | Marked |
| | Epithelium | Hyperplasia | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

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Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104197

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Mild

[Erosion TGLs = 4-24]

[Hyperplasia TGLs = 4-24]

[Inflammation TGLs = 4-24]

* Thymus

Hyperplasia

Lymphoid, Minimal

* Thyroid Gland

Follicle

Hypertrophy

Moderate

Tooth

Inflammation

Acute, Moderate

Note: Slide 9 Tooth, inflammation, acute moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104198

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, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Mammary Gland
---------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Marked
	Kupffer Cell	Pigmentation	Minimal
Note: adenoma also observed on slide 6.			
	[Hepatocellular Adenoma TGLs = 2-22]		
	[Hepatocellular Carcinoma TGLs = 1-21, 3-23]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 543

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Minimal |
| | | Hypertrophy | Diffuse, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Carcinoma TGLs = 1-21, 3-22, 4-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Inflammation | Minimal |
| | | Ulcer | Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | Follicle | Hypertrophy | Moderate |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma
 - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 538

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

- * Intestine Small, Duodenum

OBSERVATIONS

- | | | | |
|--|--|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Diffuse, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Additional carcinoma observed on slide 6 | | | |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22, 4-24, 5-25] | | |
| | [Hepatocellular Carcinoma TGLs = 3-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Mineralization | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 6-26] | | |
| * Stomach, Glandular | | Hemorrhage | Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 201

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------------------------|---------------|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Marked |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 4 = NCL | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Carcinoma | |
| | | Inflammation | Chronic, Minimal |
| [Hepatocellular Carcinoma | TGLs = 1-21] | | |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis | TGLs = 2-22] | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Focal, Mild |
| | | Pigmentation | Mild |
| * Uterus | | Hyperplasia | Cystic, Mild |
| [Hyperplasia | TGLs = 3-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 202

TRT#: 2

SEX: Female

DAY ON TEST: 4

DOSE: 0 MG/KG

DISP: Accidentally Killed

HISTO: 110520104202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|---------------|---------------------|
| * Gallbladder | * Parathyroid Gland |
|---------------|---------------------|

OBSERVATIONS

- | | | | |
|--|----------|-------------|-----------------|
| * Mammary GI | | | |
| Note: Mammary tissue observed on slide # 8.1 and 8.2 | | | |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 203

TRT#: 2

SEX: Female

DAY ON TEST: 697

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * 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 | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------------------------|--------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | Tail | Callus | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Inflammation | Chronic, Mild |
| * Lym Node Mand | | | |
| Note: Increased apoptosis present | | | |
| * Lym Node Mesen | | | |
| Note: Increased apoptosis | | | |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 2-7, 4-7] | | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Foreign Body | Minimal |
| | | Hemorrhage | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Ulcer | Marked |

Note: Chronic inflammation observed on slide 8. Minimal chronic active inflammation observed in tail (slide 21-1.2) with hair shaft.

Note: Part of the tail was covered by a very thin layer of non-keratinized stratified squamous epithelium. In some sections of the tail vertebrae were exposed.

[Hemorrhage TGLs = 1-21, 1-21-1]

[Ulcer TGLs = 1-21, 1-21-1]

- | | | | |
|----------|--|----------------------------------|------|
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
|----------|--|----------------------------------|------|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 203

TRT#: 2

SEX: Female

DAY ON TEST: 697

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104203

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Atrophy	Minimal
* Uterus		Degeneration	Mild
		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Skin Ulcer

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 204

TRT#: 2

SEX: Female

DAY ON TEST: 680

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone
- * Clitoral Gland
- * Kidney
- * Liver
 - Note: Minimal chronic inflammation-occasional small clusters of lymphocytes
- * Lymph Node, Mandibular
- Mesentery
 - [Necrosis TGLs = 4-21]
- * Ovary
 - [Cyst TGLs = 1-7]
- * Pancreas
- * Pituitary Gland
- * Salivary Glands
- * Skin
 - [Fibrosis TGLs = 2-22]
 - [Hyperkeratosis TGLs = 2-22]
- Capsule
- Fat
- Pars Distalis
- Epidermis, Tail
- Hyperplasia
- Fibro-Osseous Lesion
- Inflammation
- Infiltration Cellular
- Mineralization
- Inflammation
- Pigmentation
- Necrosis
- Cyst
- Inflammation
- Hyperplasia
- Infiltration Cellular
- Fibrosis
- Hyperkeratosis
- Hyperplasia
- Inflammation
- Ulcer
- Moderate
- Mild
- Chronic Active, Minimal
- Mononuclear CI, Mild
- Minimal
- Chronic, Minimal
- Moderate
- Mild
- Mild
- Chronic, Minimal
- Minimal
- Mononuclear CI, Minimal
- Minimal
- Mild
- Minimal
- Acute, Mild
- Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 204

TRT#: 2

SEX: Female

DAY ON TEST: 680

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104204

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 2-22]

[Inflammation TGLs = 2-22]

[Ulcer TGLs = 2-22]

* Spleen

Hematopoietic Cell Proliferation

Moderate

Pigmentation

Minimal

* Thymus

Hyperplasia

Lymphoid, Minimal

* Thyroid Gland

Follicle

Degeneration

Minimal

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLs = 3-7]

PRIMARY CAUSE OF DEATH

- Skin Ulcer

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 205

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic, Minimal
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Lung		Hemorrhage	Mild
		Hepatocellular Carcinoma	Metastatic (Liver)
		Mineralization	Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactoceles	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Stomach, Forestomach		Hemorrhage	Moderate
* Stomach, Glandular		Mineralization	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 206

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * 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 |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---|----------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Mild |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | Inflammation | Acute, Minimal |
| Note: Eosinophilic proteinaceous material in nasal cavity. G.M.S. stain negative. | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Thymus | | Cyst | Mild |
| | | Hyperplasia | Lymphoid, Minimal |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Moderate |

Note: Cystic hyperplasia more severe in one horn verses other horn.

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 207

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------|-----------------------------------|--------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Moderate |
| | | Hypertrophy | Focal, Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Harderian Gland | | Adenoma | |
| | [Adenoma TGLs = 2-12] | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Mild |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Tension Lipidosis | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| Mesentery | | Inflammation | Chronic Active, Moderate |
| | Fat | Necrosis | Mild |
| | [Inflammation TGLs = 1-21] | | |
| | [Necrosis TGLs = 1-21] | | |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 208

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * 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 | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Marked |
| | | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hemorrhage | Minimal |
| | | Inflammation | Chronic, Mild |
| | [Hemorrhage TGLs = 1-6] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Pigmentation | Minimal |
| * Thymus | | Cyst | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | Note: Adenoma-non-encapsulated expansile mass with solid nests of oval cells. Cells-indstinct pale eosinophilic cytoplasm, round nuclei. 1-3 mitotic figures/HPF | | |
| * Uterus | | Hyperplasia | Cystic, Marked |
| | Note: One horn was much more severe (cystic hyperplasia) than the other horn. | | |
| | [Hyperplasia TGLs = 2-7, 3-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 209

TRT#: 2

SEX: Female

DAY ON TEST: 579

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|----------------------|------------------------|--------------------------|
| * Adrenal Medulla | * Bone Marrow | * Brain | * Clitoral Gland |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Islets, Pancreatic | * Kidney | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

Blood Vessel

AUTO PRECLUDES DIAG.

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | | | |

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------------|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Esophagus | Muscularis | Degeneration | Mild |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | [Eosinophilic Focus TGLs = 4-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Mild |
| * Pancreas | | Cyst | Mild |
| | | Inflammation | Chronic, Minimal |
| | [Cyst TGLs = 1-7] | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Pigmentation | Moderate |
| * Thymus | | Atrophy | Marked |
| | | Necrosis | Lymphoid, Minimal |
| * Trachea | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 209

TRT#: 2

SEX: Female

DAY ON TEST: 579

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104209

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Trachea present on slide3-1.

* Uterus

[Hyperplasia TGLs = 2-7, 3-7]

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 210

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Bone		Fibro-Osseous Lesion	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic, Minimal
Lymph Node		Ectasia	Marked
		Hemorrhage	Mild
[Ectasia TGLs = 1-21]			
[Hemorrhage TGLs = 1-21]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 2-22]			
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
* Trachea			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 210

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104210

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Trachea present on slide 3-1

* Uterus

[Hyperplasia TGLs = 3-7]

Hyperplasia

Cystic, Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 211

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone
- * Brain
- * Kidney
- * Liver
- Lymph Node
- [Ectasia TGLs = 3-21]
- [Hemorrhage TGLs = 3-21]
- * Lymph Node, Mandibular
- * Ovary
- [Cyst TGLs = 2-7]
- * Pancreas
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Spleen
- * Thymus
- * Thyroid Gland
- * Uterus
- [Hyperplasia TGLs = 1-7]
- Capsule
- Renal Tubule
- Pars Distalis
- Follicle
- Hyperplasia
- Fibro-Osseous Lesion
- Hemorrhage
- Dilatation
- Infiltration Cellular
- Hematopoietic Cell Proliferation
- Ectasia
- Hemorrhage
- Pigmentation
- Cyst
- Inflammation
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Hematopoietic Cell Proliferation
- Atrophy
- Hypertrophy
- Hyperplasia
- Mild
- Mild
- Minimal
- Minimal
- Minimal
- Mononuclear CI, Minimal
- Minimal
- Marked
- Marked
- Mild
- Mild
- Chronic, Minimal
- Mild
- Mononuclear CI, Minimal
- Chronic Active, Minimal
- Minimal
- Mild
- Minimal
- Cystic, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 212

TRT#: 2

SEX: Female

DAY ON TEST: 340

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * 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 | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Thyroid Gland | * Trachea | * Urinary Bladder |

INSUFFICIENT TISSUE

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|----------------|---------------------------|------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| Blood Vessel | | Mineralization | Marked |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Marked |
| * Liver | | Fatty Change | Moderate |
| * Lung | | Hemorrhage | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Atrophy | Mild |
| * Ovary | | Abscess | Chronic Active, Marked |
| Note: Gram negative rods present | | | |
| [Abscess TGLs = 2-7] | | | |
| * Skin | | Cyst Epithelial Inclusion | Mild |
| [Cyst Epithelial Inclusion TGLs = 3-21] | | | |
| * Spleen | | Atrophy | Mild |
| | Lymph Follicle | Atrophy | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| | | Ulcer | Moderate |
| * Stomach, Glandular | | Mineralization | Mild |
| * Thymus | | Atrophy | Marked |
| * Uterus | | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 212

TRT#: 2

SEX: Female

DAY ON TEST: 340

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104212

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Ovary Abscess

CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 213

TRT#: 2

SEX: Female

DAY ON TEST: 589

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
 - Capsule
 - Fibrosarcoma
 - Hyperplasia
 - Hypertrophy
 - Fibro-Osseous Lesion
 - Serosa
 - Inflammation
 - Mediastinum
 - Fibrosarcoma
- * Bone
- * Kidney
- * Liver
 - [Fibrosarcoma TGLs = 4-22, 5-22, 6-23, 7-23, 8-24]
- * Lung
 - [Fibrosarcoma TGLs = 4-22, 5-22, 6-23, 7-23, 8-24]
- * Lymph Node, Mandibular
 - Pigmentation
- * Mammary Gland
 - Galactoceles
- Mesentery
 - Fibrosarcoma
- Note: Metastatic fibrosarcoma-slides 4, 4-1, 5, 10. Mediastinal fat also had metastatic fibrosarcoma-slides 3, 12
- * Pancreas
 - Atrophy
 - Fibrosarcoma
- * Salivary Glands
 - Fibrosarcoma
 - Infiltration Cellular
 - Necrosis
- * Skin
 - Subcut Tiss
 - Fibrosarcoma
- [Fibrosarcoma TGLs = 1-21]
- * Spleen
 - Capsule
 - Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 213

TRT#: 2

SEX: Female

DAY ON TEST: 589

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104213

ORGAN AND ACCOUNTABLE SITE STATUS

	Hematopoietic Cell Proliferation	Moderate
	Pigmentation	Minimal
[Hematopoietic Cell Proliferation TGLs = 2-6]		
* Stomach, Glandular Epithelium	Vacuolization Cytoplasmic	Mild
* Thymus	Atrophy	Moderate
	Cyst	Mild
* Thyroid Gland Follicle	Degeneration	Moderate
	Hypertrophy	Minimal
* Uterus Follicle	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Lung Fibrosarcoma Skin

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 214

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibro-Osseous Lesion	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hemorrhage	Mild
	[Hemorrhage TGLs = 1-21]		
* Lung		Hemorrhage	Mild
	[Hemorrhage TGLs = 3-2]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Carcinoma	
	[Carcinoma TGLs = 4-23]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLs = 2-22]		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thymus		Hyperplasia	Lymphoid, Marked
* Thyroid Gland	Follicle	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 214

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104214

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Follicle	Hypertrophy Hyperplasia	Minimal Cystic, Moderate
[Hyperplasia TGLs = 5-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 215

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Brain | * Esophagus |
| * Eye | * Gallbladder | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--|----------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Bone Marrow | | Histiocytic Sarcoma | |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Harderian Gland | | Adenoma | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| Lymph Node | | Pigmentation | Moderate |
| [Pigmentation TGLs = 2-21] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | | |
| Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation. | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | Lymph Follicle | Hyperplasia | Focal, Mild |
| [Hyperplasia TGLs = 1-6] | | | |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Thyroid Gland | Follicle | Degeneration | Moderate |
| | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 216

TRT#: 2

SEX: Female

DAY ON TEST: 587

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Liver | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

AUTO PRECLUDES DIAG.

- * Gallbladder

OBSERVATIONS

- | | | | |
|--------------------------------|---------------|----------------------|------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| Note: TGL 3 = NCL, TGL 4 = NCL | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Stomach, Forestomach | | Inflammation | Minimal |
| * Thymus | | Atrophy | Minimal |
| | | Necrosis | Lymphoid, Mild |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Mild |

[Hyperplasia TGLs = 1-7]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 217

TRT#: 2

SEX: Female

DAY ON TEST: 438

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---|--------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| Note: Both adrenal glands present on slide # 10 | | | |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| Note: Renal tubule dilatation-tubule with expanded lumen filled with hyaline eosinophilic proteinaceous material. | | | |
| * Liver | | Fatty Change | Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| Note: Lesion observed on slide # 4 | | | |
| * Spleen | | Pigmentation | Mild |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicle | Degeneration | Moderate |
| | Follicle | Hypertrophy | Mild |

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 218

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Skin | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Ovary

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Harderian Gland | | Adenoma | |
| [Adenoma TGLs = 3-12] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Mineralization | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Hemorrhage | Mild |
| | | Mineralization | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Pigmentation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Marked |
| [Hyperplasia TGLs = 4-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 218

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104218

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 2-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 219

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
* Liver		Fatty Change	Mild
		Hemorrhage	Mild
		Hepatocellular Adenoma	
		Inflammation	Chronic, Minimal
Note: hemorrhage observed on slide 21.			
[Hepatocellular Adenoma TGLs = 2-21]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactocele	Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 220

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Mild |
| * Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Adenoma TGLs = 3-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| * Ovary | | Angiectasis | Mild |
| | | Cyst | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Cyst | Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| * Spleen | | Pigmentation | Mild |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Thyroid Gland | Follicle | Hypertrophy | Mild |
| * Uterus | | Hyperplasia | Cystic, Marked |
| | [Hyperplasia TGLs = 2-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 221

TRT#: 2

SEX: Female

DAY ON TEST: 632

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Skin | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|----------------------------------|--------------|-----------------------|------------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | Maxilla | Rhabdomyosarcoma | Metastatic (Skeletal Muscle) |
| Note: TGL 9 = NCL | | | |
| * Bone Marrow | | Rhabdomyosarcoma | Metastatic (Skeletal Muscle) |
| * Harderian Gland | | Hyperplasia | Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Minimal |
| | | Tension Lipidosis | Mild |
| [Basophilic Focus TGLs = 6-22] | | | |
| * Lung | | Fibrosis | Minimal |
| | | Hemorrhage | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Ectasia | Mild |
| | | Fibrosis | Mild |
| | | Hyperplasia | Lymphoid, Mild |
| | | Inflammation | Chronic Active, Mild |
| | | Pigmentation | Moderate |
| [Ectasia TGLs = 1-8] | | | |
| [Fibrosis TGLs = 1-8] | | | |
| [Hyperplasia TGLs = 1-8] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 221

TRT#: 2

SEX: Female

DAY ON TEST: 632

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104221

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 1-8]

* Mammary Gland

Galactocele

Minimal

* Pancreas

Inflammation

Chronic, Minimal

* Salivary Glands

Atrophy

Mild

Skeletal Muscle

Infiltration Cellular

Mononuclear CI, Minimal

Rhabdomyosarcoma

[Rhabdomyosarcoma TGLs = 7-24]

* Spleen

Pigmentation

Moderate

* Stomach, Forestomach

Epithelium

Hyperplasia

Minimal

[Hyperplasia TGLs = 8-23]

* Stomach, Glandular

Mineralization

Mild

* Thymus

Cyst

Mild

* Thyroid Gland

Follicle

Degeneration

Mild

* Uterus

Hyperplasia

Cystic, Marked

[Hyperplasia TGLs = 2-7, 3-7]

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Rhabdomyosarcoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 222

TRT#: 2

SEX: Female

DAY ON TEST: 698

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Eye | * Gallbladder | * 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 |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--|--------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 9 = NCL, TGL 10 = NCL | | | |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Esophagus | | Necrosis | Minimal |
| Note: slide 3-1.1 | | | |
| * Heart | Valve | Thrombosis | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Minimal |
| Lymph Node | Iliac | Hyperplasia | Lymphoid, Marked |
| | Iliac | Lymphoma Malignant | |
| | Inguinal | Lymphoma Malignant | |
| Note: Slide 8-1 inguinal lymph node-lymphoma malignant
[Lymphoma Malignant TGLs = 5-21] | | | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | Inflammation | Acute, Mild |
| Note: Inflammation included large amount eosinophilic proteinaceous material. G.M.S. stain negative for fungus | | | |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 3-7] | | | |
| * Skin | | Cyst Epithelial Inclusion | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 222

TRT#: 2

SEX: Female

DAY ON TEST: 698

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104222

ORGAN AND ACCOUNTABLE SITE STATUS

Lymphoma Malignant

Note: slide 8

[Cyst Epithelial Inclusion TGLs = 8-22]

* Spleen

Hematopoietic Cell Proliferation

Mild

[Hematopoietic Cell Proliferation TGLs = 1-6]

* Thymus

Atrophy

Mild

* Thyroid Gland

Follicle

Degeneration

Marked

* Uterus

Edema

Moderate

Hyperplasia

Cystic, Marked

Inflammation

Acute, Marked

Necrosis

Marked

[Edema TGLs = 6-7]

[Hyperplasia TGLs = 4-7]

[Inflammation TGLs = 6-7]

[Necrosis TGLs = 6-7]

PRIMARY CAUSE OF DEATH - Uterus Necrosis

CONTRIBUTORY CAUSE OF DEATH - Uterus Inflammation

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 223

TRT#: 2

SEX: Female

DAY ON TEST: 656

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Trachea
- Blood Vessel
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Pituitary Gland
- * Urinary Bladder
- * Brain
- * Heart
- * Intestine Small, Duodenum
- * Mammary Gland
- * Skin
- * Uterus
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Nose
- Tissue NOS

OBSERVATIONS

- * Adrenal Cortex Capsule Hyperplasia Moderate
- * Bone Fibro-Osseous Lesion Minimal
- * Bone Marrow Lymphoma Malignant
- * Gallbladder Lymphoma Malignant
- * Harderian Gland Adenoma
- [Adenoma TGLs = 16-12]
- * Kidney Renal Tubule Accumulation, Hyaline Droplet Mild
- [Lymphoma Malignant TGLs = 9-5] Lymphoma Malignant
- * Liver Mineralization Mild
- [Lymphoma Malignant TGLs = 13-6, 12-26] Nephropathy Minimal
- * Lung Lymphoma Malignant
- Lymph Node Mediastinal Lymphoma Malignant
- Renal Lymphoma Malignant
- Iliac Lymphoma Malignant
- Pancreatic Lymphoma Malignant
- Inguinal Lymphoma Malignant
- Axillary Lymphoma Malignant
- Lymphoma Malignant

Note: TGL 11-25 was celiac lymph node (not available in LDASII).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 223

TRT#: 2

SEX: Female

DAY ON TEST: 656

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104223

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLs = 15-3]
[Lymphoma Malignant TGLs = 10-24]
[Lymphoma Malignant TGLs = 8-23]
[Lymphoma Malignant TGLs = 5-7]
[Lymphoma Malignant TGLs = 3-8-1]
[Lymphoma Malignant TGLs = 2-21]
[Lymphoma Malignant TGLs = 11-25]

* Lymph Node, Mandibular

Lymphoma Malignant

[Lymphoma Malignant TGLs = 4-8]

* Lymph Node, Mesenteric

Lymphoma Malignant

[Lymphoma Malignant TGLs = 1-5]

* Ovary

Lymphoma Malignant

* Pancreas

Lymphoma Malignant

* Salivary Glands

Lymphoma Malignant

* Spleen

Lymphoma Malignant

Necrosis

Marked

[Lymphoma Malignant TGLs = 6-6]

[Necrosis TGLs = 7-22]

* Stomach, Forestomach

Epithelium

Hyperplasia

Moderate

Inflammation

Mild

Ulcer

Mild

[Hyperplasia TGLs = 17-27]

[Inflammation TGLs = 17-27]

[Ulcer TGLs = 17-27]

* Stomach, Glandular

Glands

Ectasia

Focal, Mild

* Thymus

Lymphoma Malignant

Mineralization

Minimal

* Thyroid Gland

Follicle

Degeneration

Marked

PRIMARY CAUSE OF DEATH

- Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 224

TRT#: 2

SEX: Female

DAY ON TEST: 684

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|-----------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| Note: slide 5 | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| * Lung | | Thrombosis | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Skin | Epidermis, Tail | Hyperkeratosis | Minimal |
| | | Inflammation | Acute, Mild |
| | | Ulcer | Marked |
| [Hyperkeratosis TGLs = 4-21] | | | |
| [Inflammation TGLs = 4-21] | | | |
| [Ulcer TGLs = 4-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| [Hematopoietic Cell Proliferation TGLs = 3-6] | | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Minimal |
| * Thymus | | Atrophy | Moderate |
| | | Cyst | Mild |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| | Follicle | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 224

TRT#: 2

SEX: Female

DAY ON TEST: 684

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104224

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLs = 2-7]

PRIMARY CAUSE OF DEATH

- Skin Ulcer

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 225

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Clitoral Gland

OBSERVATIONS

- | | | | |
|--------------------------|---------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Lymphoma Malignant | |
| * Lymph Node, Mandibular | | Pigmentation | Marked |
| * Mammary Gland | | Galactoceles | Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Spleen | | Lymphoma Malignant | |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Moderate |

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 226

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Inflammation	Chronic, Minimal
		Necrosis	Focal, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Galactoceles	Minimal
* Nose		Foreign Body	
		Inflammation	Acute, Minimal
Note: Eosinophilic proteinaceous material in nose-G.M.S. stain negative for fungus			
* Pancreas		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicular Cell	Adenoma	
	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Marked

[Hyperplasia TGLs = 1-7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 227

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung | * Nose | * Parathyroid Gland | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mesenteric

OBSERVATIONS

- | | | | |
|--------------------------|--------------|---|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hemorrhage | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | [Eosinophilic Focus TGLs = 5-23] | |
| * Lym Node Mesen | | | |
| | | Note: Slide 5-1 contained a lymph node and mammary gland. | |
| Lymph Node | | Pigmentation | Moderate |
| | | [Pigmentation TGLs = 2-22] | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Mild |
| | | Hyperplasia | Mild |
| Mesentery | Fat | Necrosis | Mild |
| | | [Necrosis TGLs = 1-21] | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 227

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104227

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Cyst	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-1]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 228

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|--------------|----------|
| Blood Vessel | * Thymus |
|--------------|----------|

OBSERVATIONS

- | | | | |
|--------------------------|----------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| * Pancreas | | Atrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | | | |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Pigmentation | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Marked |

Note: atrophy slide 6

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 229

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Stomach, Forestomach | * Thymus | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Harderian Gland | | Adenoma | |
| * Intestine Small, Ileum | | Hyperplasia | Lymphoid, Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Mild |
| | | Nephropathy | Minimal |
| * Liver | | Lymphoma Malignant | |
| | Kupffer Cell | Pigmentation | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Marked |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | Foreign Body | |
| * Ovary | | Cyst | Mild |
| | | Cystadenoma | |
| | [Cyst TGLs = 1-7] | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Moderate |
| | | Pigmentation | Mild |
| * Stomach, Glandular | Glands | Ectasia | Focal, Mild |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| * Uterus | | Hyperplasia | Cystic, Marked |
| | [Hyperplasia TGLs = 2-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 230

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Ovary | * Pituitary Gland | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---|--------------|------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Harderian Gland | | Carcinoma | |
| [Carcinoma TGLs = 4-21] | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Inflammation | Chronic, Mild |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| [Alveolar/Bronchiolar Adenoma TGLs = 3-2] | | | |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Moderate |
| | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | Inflammation | Acute, Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Uterus | | Cyst | Mild |
| | | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 230

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104230

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLs = 1-22]

[Hyperplasia TGLs = 2-7]

[Inflammation TGLs = 2-22]

Inflammation

Histiocytic, Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 231

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|--------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Moderate |
| * Harderian Gland | | Adenoma | |
| [Adenoma TGLs = 1-21] | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Inflammation | Chronic, Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Mild |
| | | Pigmentation | Mild |
| * Nose | | Foreign Body | |
| | | Inflammation | Acute, Minimal |
| Note: Foreign body-hair shaft. Eosinophilic proteinaceous material in nasal cavity with inflammation-G.M.S. stain negative. | | | |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |
| * Spleen | Lymph Follic | Hyperplasia | Marked |
| | | Pigmentation | Mild |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| * Uterus | | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 232

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Trachea	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Eye	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Stomach, Glandular			

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
	Interstitialium	Inflammation	Chronic, Mild
* Liver		Fatty Change	Mild
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Galactocele	Minimal
* Ovary		Cyst	Mild
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
		Ulcer	Mild
		[Hyperplasia TGLs = 1-4-1]	
		[Inflammation TGLs = 1-4-1]	
		[Ulcer TGLs = 1-4-1]	
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Degeneration	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 233

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Mammary Gland | * Nose | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Skin | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---|--------------|-----------------------|-------------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 4 = NCL | | | |
| * Harderian Gland | | Adenoma | |
| [Adenoma TGLs = 2-12] | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Inflammation | Chronic, Mild |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Minimal |
| | | Pigmentation | Minimal |
| Note: Plasma cell hyperplasia included numerous "Mott cells". | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Plasma Cell, Moderate |
| Note: Plasma cell hyperplasia included numerous "Mott cells". | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |
| * Spleen | Lymph Follic | Hyperplasia | Plasma Cell, Mild |
| | | Pigmentation | Minimal |
| Note: Plasma cell hyperplasia included numerous "Mott cells". | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 233

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104233

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 1-6]		
* Stomach, Forestomach	Cyst	
* Thymus	Atrophy	Mild
* Uterus	Hyperplasia	Cystic, Mild
[Hyperplasia TGLs = 3-7]		

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 234

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone Marrow | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | Skeletal Muscle | * Skin | Spinal Cord |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

INSUFFICIENT TISSUE

- * Lymph Node, Mesenteric

OBSERVATIONS

- | | | | |
|--|----------|-----------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| Blood Vessel | | Inflammation | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Brain | Meninges | Inflammation | Chronic, Minimal |
| Note: Brain-inflammation observed in meninges and surrounded a small artery. | | | |
| * Kidney | Artery | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Nephropathy | Minimal |
| Note: Lesion included hypertrophy of tunica media | | | |
| * Liver | | Hepatocellular Adenoma | |
| | | Inflammation | Chronic, Minimal |
| [Hepatocellular Adenoma TGLs = 3-6] | | | |
| * Lung | | Hemorrhage | Minimal |
| | | Infiltration Cellular | Histiocyte, Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| Mesentery | | | |
| Note: Multiple arteries in mesentery (slide 7) were hypertrophied with perivascular chronic inflammation | | | |
| * Ovary | | Granulosa Cell Tumor Benign | |
| [Granulosa Cell Tumor Benign TGLs = 4-7] | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| Note: Inflammation-slide 4 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 234

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104234

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland		Cyst	Mild
Peripheral Nerve		Degeneration	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thymus		Atrophy	Minimal
		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Mild
Note: Thyroid contained multiple hypertrophied arteries (partially occluded) with perivascular chronic inflammation.			
* Uterus		Hyperplasia	Cystic, Marked
Note: Lesion was not as severe in right horn in comparison to left horn			
[Hyperplasia TGLs = 1-7, 2-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 235

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Inflammation	Chronic, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 1-21, 2-22]			
* Ovary		Cystadenoma	
* Pancreas		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Hyperplasia	Minimal
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Moderate
	Follicle	Hypertrophy	Minimal
* Uterus		Angiectasis	Mild
		Hyperplasia	Cystic, Moderate
[Angiectasis TGLs = 3-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 236

TRT#: 2

SEX: Female

DAY ON TEST: 593

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104236

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Lymphoma Malignant	
Lymph Node	Mediastinal	Lymphoma Malignant	
	Inguinal	Lymphoma Malignant	
	Axillary	Lymphoma Malignant	
	Iliac	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	Deep Cervical	Lymphoma Malignant	
	Popliteal	Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 14-3]		
	[Lymphoma Malignant TGLs = 2-8-1, 2-21]		
	[Lymphoma Malignant TGLs = 3-22]		
	[Lymphoma Malignant TGLs = 8-23]		
	[Lymphoma Malignant TGLs = 9-24]		
	[Lymphoma Malignant TGLs = 13-26]		
	[Lymphoma Malignant TGLs = 15-27]		
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 11-5]		
* Mammary Gland		Galactocele	Mild
		Lymphoma Malignant	
* Nose		Lymphoma Malignant	
* Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Skin		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-6]		
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Marked
		Inflammation	Moderate
		Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 236

TRT#: 2

SEX: Female

DAY ON TEST: 593

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104236

ORGAN AND ACCOUNTABLE SITE STATUS

[Edema TGLs = 19-28]

[Hyperplasia TGLs = 19-28]

[Inflammation TGLs = 19-28]

[Ulcer TGLs = 19-28]

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Uterus

Lymphoma Malignant

Lymphoma Malignant

Lymphoma Malignant

Lymphoma Malignant

Hyperplasia

Lymphoma Malignant

Cystic, Minimal

[Hyperplasia TGLs = 6-7]

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 237

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------------------|------------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| | | Hemorrhage | Mild |
| | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Brain | | Compression | Minimal |
| | [Compression TGLs = 5-1] | | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Mineralization | Minimal |
| Lymph Node | | Pigmentation | Moderate |
| | [Pigmentation TGLs = 3-21] | | |
| * Mammary Gland | | Galactocele | Mild |
| | | Hyperplasia | Mild |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 1-7] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4-1] | | |
| * Spleen | | Pigmentation | Moderate |
| * Stomach, Glandular | | Inflammation | Acute, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 237

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104237

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Hypertrophy

Moderate

* Uterus

Hyperplasia

Cystic, Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 238

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------------------------|---|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | | |
| Note: TGL 12 = NCL | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hepatocellular Carcinoma | Metastatic (Liver) |
| [Hepatocellular Carcinoma | TGLs = 5-24] | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| * Liver | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Mild |
| [Hepatocellular Adenoma | TGLs = 3-22] | | |
| [Hepatocellular Carcinoma | TGLs = 1-21] | | |
| * Lung | | Hepatocellular Carcinoma | Metastatic (Liver) |
| [Hepatocellular Carcinoma | TGLs = 7-26, 8-27, 9-28, 10-29, 11-30] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis | TGLs = 4-23] | | |
| * Pancreas | | Atrophy | Mild |
| | | Inflammation | Chronic, Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 238

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104238

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLs = 2-6]

* Thymus

Atrophy

Moderate

* Thyroid Gland

Follicle

Degeneration

Mild

* Uterus

Hyperplasia

Cystic, Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 239

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|---------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Marked |
| | | Hypertrophy | Focal, Minimal |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Minimal |
| Lymph Node | | Ectasia | Marked |
| | | Hemorrhage | Mild |
| Note: Lymph node-TGL 1-21 Thrombus present
[Ectasia TGLs = 1-21]
[Hemorrhage TGLs = 1-21] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactoceles | Mild |
| * Nose | | | |
| Note: Nasal cavity contained eosinophilic proteinaceous material -no inflammation. | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| Note: Adenoma included angiectasis. | | | |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Mild |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 239

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104239

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicle	Cyst	Mild
	Follicle	Hyperplasia	Lymphoid, Mild
	Follicle	Cyst	
		Degeneration	Minimal
* Uterus		Hypertrophy	Minimal
		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLs = 2-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 240

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--------------------------------------|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| | [Fibro-Osseous Lesion TGLs = 2-21] | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Ovary | | Cyst | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Mild |
| | | Pigmentation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Uterus | | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 240

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104240

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 241

TRT#: 2

SEX: Female

DAY ON TEST: 601

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-------------------|---------------|------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Clitoral Gland |
| * Esophagus | * Harderian Gland | * Heart | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

AUTO PRECLUDES DIAG.

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Brain | | Hemorrhage | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Fatty Change | Minimal |
| * Lung | | Congestion | Marked |
| | [Congestion TGLs = 2-2] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| * Pituitary Gland | Rathkes Cleft | Cyst | Mild |
| * Spleen | | Pigmentation | Mild |
| * Thymus | | Atrophy | Marked |
| | | Cyst | Mild |
| * Uterus | | Hemangioma | |
| | | Hyperplasia | Cystic, Mild |
| | | Thrombosis | Mild |
| | [Hemangioma TGLs = 1-7] | | |
| | [Hyperplasia TGLs = 1-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 241

TRT#: 2

SEX: Female

DAY ON TEST: 601

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104241

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 242

TRT#: 2

SEX: Female

DAY ON TEST: 684

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Intestine Small, Ileum		Lymphoma Malignant	
		Ulcer	Marked
	[Lymphoma Malignant TGLs = 1-21]		
	[Ulcer TGLs = 1-21]		
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Mild
		Hematopoietic Cell Proliferation	Mild
* Lung		Hemorrhage	Mild
* Lymph Node, Mandibular		Atrophy	Marked
		Pigmentation	Mild
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 3-22]		
* Mammary Gland		Galactocele	Minimal
* Nose		Inflammation	Acute, Mild
* Pancreas		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 242

TRT#: 2

SEX: Female

DAY ON TEST: 684

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104242

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Erosion	Mild
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH - Intestine Small, Ileum Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Intestine Small, Ileum Ulcer

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 243

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|--------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Marked |
| * Nose | | Foreign Body | |
| Note: foreign body-hair shaft. Eosinophilic proteinaceous material in nasal cavity-no inflammation. | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Spleen | | Pigmentation | Minimal |
| * Stomach, Glandular | Glands | Ectasia | Focal, Mild |
| [Ectasia TGLs = 2-21] | | | |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| * Uterus | | Hyperplasia | Cystic, Mild |
| [Hyperplasia TGLs = 1-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * 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 |
| * Pituitary Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|------------------------|----------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 3 = NCL | | | |
| * Brain | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| | | Tension Lipidosis | Minimal |
| * Mammary Gland | | Galactoceles | Minimal |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 1-7] | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |
| * Skin | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | Lymph Follicle | Hyperplasia | Minimal |
| | | Pigmentation | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Mild |
| | | Ulcer | Mild |
| * Stomach, Glandular | Glands | Ectasia | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104244

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Mineralization	Mild
		Atrophy	Moderate
		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 2-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 245

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Nose | * Pituitary Gland | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

- | | |
|---------|---------------------|
| * Ovary | * Parathyroid Gland |
|---------|---------------------|

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Minimal |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Harderian Gland | | Adenoma | |
| | [Adenoma TGLs = 3-12] | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Granulomatous, Marked |
| | Lip | Inflammation | Chronic, Minimal |
| | | Ulcer | Marked |

Note: TGL 1-Ulcer and inflammation on tail extended down into underlying muscle and bone

[Inflammation TGLs = 1-21]

[Ulcer TGLs = 1-21]

- | | | | |
|----------|--|--------------|---------|
| * Spleen | | Pigmentation | Minimal |
|----------|--|--------------|---------|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 245

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104245

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Degeneration

Minimal

* Uterus

Hyperplasia

Cystic, Marked

[Hyperplasia TGLs = 2-7, 4-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 246

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
		Hypertrophy	Focal, Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic, Mild
* Lung		Metaplasia	Osseous, Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Galactocele	Moderate
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic, Mild
		Necrosis	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-1]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Pigmentation	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
* Urinary Bladder		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 246

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104246

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Adenoma

Cystic, Mild

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 247

TRT#: 2

SEX: Female

DAY ON TEST: 696

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Esophagus	* Harderian Gland	* Heart
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Adrenal Medulla	* Thymus
-------------------	----------

AUTO PRECLUDES DIAG.

* Eye	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum

INSUFFICIENT TISSUE

* Bone	* Bone Marrow	* Lymph Node, Mandibular
--------	---------------	--------------------------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Brain		Hemorrhage	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Eosinophilic Focus	
	Kupffer Cell	Hepatocellular Carcinoma	
	[Eosinophilic Focus TGLs = 3-22]	Inflammation	Chronic, Minimal
	[Hepatocellular Carcinoma TGLs = 2-21]	Pigmentation	Minimal
* Lung		Congestion	Marked
		Metaplasia	Osseous, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Galactocele	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLs = 4-23]		
* Ovary		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 247

TRT#: 2

SEX: Female

DAY ON TEST: 696

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110520104247

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 248

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * 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, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

Blood Vessel

OBSERVATIONS

- | | | | |
|--------------------------|--------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Nephropathy | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Minimal |
| * Thymus | | Hyperplasia | Lymphoid, Moderate |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| * Uterus | | Hyperplasia | Cystic, Moderate |

[Hyperplasia TGLs = 1-7, 2-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 249

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Adenoma TGLs = 2-21] | | |
| * Lung | | Hemorrhage | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Ovary | | Cyst | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Cyst | Mild |
| | Pars Distalis | Hyperplasia | Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Mild |
| | | Pigmentation | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Uterus | | Hyperplasia | Cystic, Moderate |

[Hyperplasia TGLs = 1-7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 250

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * 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 |
| * Pituitary Gland | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-----------------------------|----------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Marked |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 6 = NCL | | | |
| * Clitoral Gland | | Cyst | Mild |
| | | Inflammation | Acute, Marked |
| [Cyst TGLs = 1-8] | | | |
| [Inflammation TGLs = 1-8] | | | |
| * Harderian Gland | | Adenoma | |
| [Adenoma TGLs = 2-22] | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Galactoceles | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3-21] | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Parathyroid Gland | | Cyst | Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Pigmentation | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| * Uterus | | Cyst | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 250

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104250

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLs = 5-7]

[Hemorrhage TGLs = 5-7]

[Hyperplasia TGLs = 4-7]

Hemorrhage

Hyperplasia

Marked

Cystic, Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 251

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Ovary | * Parathyroid Gland | * Skin |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Adenoma TGLs = 5-24] | | |
| | Lymph Node | Pigmentation | Marked |
| | [Pigmentation TGLs = 4-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Lymph Node, Mesenteric | | Hemorrhage | Mild |
| * Mammary Gland | | Inflammation | Chronic, Minimal |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLs = 1-21, 3-22] | | |
| * Nose | | Foreign Body | |
| | | Inflammation | Acute, Moderate |
| | Note: Foreign body-hair shaft. Eosinophilic proteinaceous and crystalline material in nasal cavity. G.M.S. stain negative. | | |
| * Pancreas | | Atrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | Note: Atrophy-slide 5. | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 251

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104251

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular Mineralization	Mononuclear CI, Minimal Minimal
* Spleen	Lymph Follic	Hyperplasia Pigmentation	Minimal Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular	Glands	Ectasia	Focal, Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Hypertrophy Infiltration Cellular Inflammation	Minimal Mononuclear CI, Mild Chronic, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

[Hyperplasia TGLs = 2-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 252

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|--------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 2 = NCL | | | |
| * Harderian Gland | | Hyperplasia | Moderate |
| * Heart | | Mineralization | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Mild |
| * Nose | | Inflammation | Acute, Minimal |
| Note: Foreign body-hair shaft. Eosinophilic proteinaceous material in nasal cavity. G.M.S. stain negative. | | | |
| * Ovary | | Cyst | Mild |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Minimal |
| | | Hyperplasia | Lymphoid, Minimal |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Mild |
| * Uterus | | Hyperplasia | Cystic, Minimal |

[Hyperplasia TGLs = 1-7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 253

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLs = 1-21, 4-23] | | |
| * Nose | | Foreign Body | |
| | Note: hair shaft | | |
| | Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Skin | | Edema | Marked |
| | Subcut Tiss | Fibrous Histiocytoma | Multiple |
| | Note: Solid, non-circumscribed, infiltrative tumor composed of spindle cells arranged in intertwining streams in a pale basophilic matrix. | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 253

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104253

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Tumor contained occasional multinucleated giant cells and areas of necrosis.

[Edema TGLs = 2-24]

[Fibrous Histiocytoma TGLs = 3-22, 2-24, 5-24]

* Spleen

Pigmentation

Mild

* Thymus

Note: Lymphoid tissue present on slide 3 does not appear to be thymus.

* Thyroid Gland

Follicle

Degeneration

Focal, Minimal

* Uterus

Hyperplasia

Cystic, Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Marked
* Bone		Fibro-Osseous Lesion	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
* Liver	Centrilobular, Hepatocyte	Hepatocellular Adenoma	
		Hypertrophy	Minimal
		Inflammation	Chronic, Minimal
	[Hepatocellular Adenoma TGLs = 3-22]		
Lymph Node		Hyperplasia	Lymphoid, Mild
	Pancreatic	Hyperplasia	Lymphoid, Moderate
		Pigmentation	Mild
	[Hyperplasia TGLs = 4-23]		
	[Hyperplasia TGLs = 2-21]		
	[Pigmentation TGLs = 4-23]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactocele	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibrosis	Mild
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104254

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Hyperplasia
Degeneration

Lymphoid, Minimal
Mild

* Uterus

Follicle

Hypertrophy
Hyperplasia

Minimal
Cystic, Marked

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 634

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* 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	* Parathyroid Gland	* Salivary Glands
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Clear Cell Focus	
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Galactocele	Minimal
* Pancreas		Inflammation	Chronic, Minimal
Note: Inflammation slides 4 and 7			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Epidermis, Tail	Hyperplasia	Mild
		Inflammation	Acute, Moderate
		Ulcer	Marked
Note: Ulcer, hyperplasia and inflammation observed on tail extended down into underlying muscle. Occasional cocci bacteria observed. Exudate present			
		[Hyperplasia TGLs = 1-21]	
		[Inflammation TGLs = 1-21]	
		[Ulcer TGLs = 1-21]	
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 634

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104255

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Mineralization

Minimal

* Thymus

Atrophy

Minimal

Hyperplasia

Lymphoid, Mild

* Uterus

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Skin Ulcer

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 256

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|---|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| | [Basophilic Focus TGLs = 3-22] | | |
| | [Clear Cell Focus TGLs = 2-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 1-7] | | |
| * Skin | | Foreign Body | Minimal |
| | | Inflammation | Granulomatous, Mild |
| | Note: Inflammation-slide 9. Lesion included foreign body-hair shaft | | |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Marked |
| | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 568

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--|--------------|-----------------------|-------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Bone Marrow | | Histiocytic Sarcoma | |
| * Brain | | Histiocytic Sarcoma | |
| Note: Scattered neoplastic cells observed within blood vessels | | | |
| * Heart | | Mineralization | Mild |
| * Intestine Large, Rectum | | Edema | Moderate |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| * Liver | | Histiocytic Sarcoma | |
| Note: TGL 9 = NCL | | | |
| [Histiocytic Sarcoma TGLs = 10-6] | | | |
| * Lung | | Histiocytic Sarcoma | |
| | | Infiltration Cellular | Histiocyte, Mild |
| Note: Intravascular tumor emboli | | | |
| Lymph Node | Iliac | Histiocytic Sarcoma | |
| Note: Histiocytic sarcoma observed in lymph node slide 3.1 | | | |
| [Histiocytic Sarcoma TGLs = 6-21] | | | |
| * Lymph Node, Mandibular | | Hyperplasia | Plasma Cell, Mild |
| | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Histiocytic Sarcoma | |
| [Histiocytic Sarcoma TGLs = 8-5] | | | |
| Mesentery | | Histiocytic Sarcoma | |
| Note: Histiocytic sarcoma observed in mesentery slide 7 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 568

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104257

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Histiocytic Sarcoma	
* Pancreas		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLs = 5-7]		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
Skel Muscle			
	Note: Histiocytic sarcoma-slide 8		
* Skin		Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLs = 4-6]		
* Stomach, Forestomach		Mineralization	Mild
		Ulcer	Minimal
	[Mineralization TGLs = 11-4-1]		
	[Ulcer TGLs = 11-4-1]		
* Stomach, Glandular		Mineralization	Minimal
	[Mineralization TGLs = 11-4-1]		
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Degeneration	Mild
* Uterus		Histiocytic Sarcoma	
		Hyperplasia	Cystic, Mild
	[Histiocytic Sarcoma TGLs = 1-23]		
	[Hyperplasia TGLs = 2-7, 3-7]		

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 259

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|------------------------|--|-------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| | | Hypertrophy | Focal, Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Inflammation | Chronic, Mild |
| | [Hepatocellular Adenoma TGLs = 1-21, 4-23, 5-24] | | |
| * Lung | | Mineralization | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2-22] | | |
| * Pancreas | | Atrophy | Minimal |
| | | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Stomach, Forestomach | | Erosion | Minimal |
| | | Squamous Cell Papilloma | |
| | [Erosion TGLs = 6-25] | | |
| | [Squamous Cell Papilloma TGLs = 6-25] | | |
| * Stomach, Glandular | Glands | Ectasia | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 259

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104259

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Degeneration

Marked

Follicle

Hypertrophy

Minimal

* Uterus

Hemorrhage

Mild

Hyperplasia

Cystic, Moderate

[Hyperplasia TGLs = 3-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 260

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * 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 | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear Cl, Mild |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Mild |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Mild |
| * Nose | | Inflammation | Acute, Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear Cl, Mild |
| | | Mineralization | Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Mild |
| | | Pigmentation | Minimal |
| | [Hyperplasia TGLs = 2-6] | | |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Uterus | | Hyperplasia | Cystic, Mild |
| | [Hyperplasia TGLs = 1-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 261

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|--------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Inflammation | Chronic, Mild |
| | | Mixed Cell Focus | |
| Lymph Node | | Pigmentation | Mild |
| [Pigmentation TGLs = 3-21] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| Mesentery | Fat | Necrosis | Minimal |
| [Necrosis TGLs = 2-22] | | | |
| * Nose | | | |
| Note: Small amount of eosinophilic proteinaceous material in nasal cavity-no inflammation. | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Mild |
| * Thymus | | Hyperplasia | Lymphoid, Minimal |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| * Uterus | | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 261

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104261

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Ovary

OBSERVATIONS

- | | | | |
|-------------------|--------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Moderate |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Inflammation | Chronic, Minimal |
| * Lung | | Hemorrhage | Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Mild |
| * Uterus | | Hyperplasia | Cystic, Marked |

[Hyperplasia TGLs = 2-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 263

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|----------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | | Lymphoma Malignant | |
| * Liver | | Hepatocellular Adenoma | |
| | | Lymphoma Malignant | |
| | [Hepatocellular Adenoma TGLs = 7-22] | | |
| | Lymph Node | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 2-2] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Mild |
| Mesentery | | Inflammation | Chronic, Mild |
| | Fat | Mineralization | Mild |
| | | Necrosis | Mild |
| | Note: Mesentery and Tissue NOS lesion included mineralization and chronic inflammation | | |
| | [Necrosis TGLs = 4-21] | | |
| * Pancreas | | Atrophy | Marked |
| | | Cyst | Mild |
| | | Fibrosis | Mild |
| | | Inflammation | Chronic, Mild |
| | [Atrophy TGLs = 3-7] | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |
| * Skin | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 263

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104263

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Lymphoma Malignant	
		Pigmentation	Minimal
	[Lymphoma Malignant TGLs = 1-6]		
* Thymus		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
Tissue NOS		Fibrosis	Moderate
		Inflammation	Chronic, Mild
		Mineralization	Mild
	[Fibrosis TGLs = 5-21]		
* Uterus		Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 6-7]		

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 264

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

INSUFFICIENT TISSUE

- * Lymph Node, Mesenteric

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | Kupffer Cell | Pigmentation | Mild |
| | [Eosinophilic Focus TGLs = 5-25] | | |
| | [Hepatocellular Adenoma TGLs = 5-25] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 2-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactoceles | Mild |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLs = 3-23] | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Skin | Subcut Tiss | Fibrosarcoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 264

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104264

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosarcoma TGLs = 4-24]	Inflammation	Chronic, Minimal
* Spleen	Hematopoietic Cell Proliferation	Moderate
	Pigmentation	Mild
* Thyroid Gland	Follicle Hypertrophy	Minimal
* Uterus	Hyperplasia	Cystic, Minimal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 265

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104265

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * 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 | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Skin | * Trachea | | |

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Marked |
| | | Hypertrophy | Focal, Minimal |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 5 = NCL | | | |
| * Bone Marrow | | Lymphoma Malignant | |
| * Brain | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Kidney | Renal Tubule | Dilatation | Mild |
| | | Infiltration Cellular | Mononuclear CI, Mild |
| | Papilla | Necrosis | Mild |
| | | Nephropathy | Mild |
| * Liver | | Fatty Change | Minimal |
| | | Lymphoma Malignant | |
| | Kupffer Cell | Pigmentation | Minimal |
| * Lung | | Mineralization | Minimal |
| Lymph Node | Renal | Hematopoietic Cell Proliferation | Mild |
| | Iliac | Hemorrhage | Marked |
| | Iliac | Lymphoma Malignant | |
| | Renal | Lymphoma Malignant | |
| | Renal | Pigmentation | Mild |
| | [Hematopoietic Cell Proliferation TGLs = 4-23] | | |
| | [Hemorrhage TGLs = 3-22] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 265

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104265

ORGAN AND ACCOUNTABLE SITE STATUS

	[Lymphoma Malignant TGLs = 3-22]		
	[Lymphoma Malignant TGLs = 4-23]		
	[Pigmentation TGLs = 4-23]		
* Lymph Node, Mandibular		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-21]		
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
		Pigmentation	Minimal
	[Lymphoma Malignant TGLs = 1-6]		
* Stomach, Forestomach		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Atrophy	Minimal
		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Carcinoma	
* Urinary Bladder		Lymphoma Malignant	
* Uterus		Hyperplasia	Cystic, Mild
		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 684

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---|---------------------------|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Marked |
| Note: cyst present | | | |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Harderian Gland | | Carcinoma | |
| [Carcinoma TGLs = 2-21] | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Mild |
| * Nose | | Inflammation | Acute, Minimal |
| Note: Eosinophilic proteinaceous material in nasal cavity with inflammation. G.M.S. stain negative and Gram stain negative. | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 684

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104266

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Harderian Gland Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 267

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * 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 | * Nose |
| * Ovary | * Parathyroid Gland | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hemangioma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hemangioma TGLs = 3-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-22] | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |
| | | Mineralization | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| * Uterus | | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Mild |
| * Harderian Gland | | Inflammation | Chronic, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Minimal |
| Lymph Node | Renal | Lymphoma Malignant | |
| | Iliac | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 1-21] | | |
| | [Lymphoma Malignant TGLs = 2-22] | | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| | [Lymphoma Malignant TGLs = 6-5] | | |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 5-7] | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| | Pars Distalis | Hyperplasia | Moderate |
| * Skin | | Inflammation | Chronic, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | [Hyperplasia TGLs = 3-6] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104268

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Lymphoma Malignant

* Thyroid Gland

Follicle

Hypertrophy

Mild

* Uterus

Hyperplasia

Cystic, Minimal

[Hyperplasia TGLs = 4-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---|-----------------|-----------------------|--------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Inflammation | Chronic, Mild |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | | |
| Note: Eosinophilic proteinaceous material present-no inflammation | | | |
| * Ovary | | Cyst | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | Epidermis, Tail | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Moderate |
| | | Ulcer | Marked |

Note: TGL 2-21 included serocellular exudate.

Note: Skin-abdomen chronic inflammation-minimal

[Hyperplasia TGLs = 2-21]

[Inflammation TGLs = 2-21]

[Ulcer TGLs = 2-21]

- | | | | |
|----------|--|----------------------------------|------|
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
|----------|--|----------------------------------|------|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104269

ORGAN AND ACCOUNTABLE SITE STATUS

	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 1-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 687

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------------------------|---------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| [Alveolar/Bronchiolar Adenoma | TGLs = 6-23] | | |
| * Mammary Gland | | Galactocele | Minimal |
| Mesentery | Fat | Necrosis | Minimal |
| [Necrosis TGLs = 1-21] | | | |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 2-7] | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Acute, Moderate |
| | | Ulcer | Marked |
| Note: Ulcer and inflammation-tail | | | |
| [Inflammation TGLs = 7-24] | | | |
| [Ulcer TGLs = 7-24] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Glandular | | Mineralization | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 687

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104270

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Hyperplasia	Lymphoid, Mild
	Follicle	Degeneration	Minimal
* Uterus		Hypertrophy	Minimal
		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLs = 3-7]

PRIMARY CAUSE OF DEATH - Uterus Hyperplasia

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 271

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * 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 | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

INSUFFICIENT TISSUE

- * Lymph Node, Mesenteric

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Minimal |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Minimal |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLs = 2-21] | | |
| * Nose | | | |
| | Note: Eosinophilic proteinaceous material in nose-no inflammation. | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Mild |
| | Note: Inflammation-slide 4, 8-1.1 | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 271

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104271

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLs = 1-6]

[Hyperplasia TGLs = 1-6]

* Thymus

Atrophy

Minimal

* Thyroid Gland

Follicle

Degeneration

Minimal

Follicle

Hypertrophy

Minimal

* Uterus

Hyperplasia

Cystic, Marked

Note: One horn less severely affected in comparison to the other horn.

[Hyperplasia TGLs = 4-7, 5-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 272

TRT#: 4

SEX: Female

DAY ON TEST: 590

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|--------------------------|-------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Intestine Large, Rectum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Skin | * Stomach, Forestomach |
| * Trachea | * Urinary Bladder | | |

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Stomach, Glandular |

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Brain | | Hemorrhage | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Mild |
| * Liver | | Fatty Change | Minimal |
| * Lung | | Congestion | Mild |
| | [Congestion TGLs = 2-2] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | Foreign Body | |
| | Note: Foreign body-plant material. | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Atrophy | Minimal |
| | | Pigmentation | Mild |
| | [Atrophy TGLs = 1-6] | | |
| * Thymus | | Atrophy | Marked |
| | | Necrosis | Lymphoid, Minimal |
| * Thyroid Gland | Follicle | Hypertrophy | Mild |
| * Uterus | | Hyperplasia | Cystic, Marked |
| | [Hyperplasia TGLs = 3-7] | | |

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 273

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic, Minimal
Lymph Node		Ectasia	Marked
		Hemorrhage	Marked
	[Ectasia TGLs = 1-21]		
	[Hemorrhage TGLs = 1-21]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Galactoceles	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 3-22]		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 273

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104273

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Hyperplasia TGLs = 2-7]

Hyperplasia

Cystic, Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 674

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------|----------------------|-------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Harderian Gland | * Heart | * Lymph Node, Mandibular |
| * Nose | * Parathyroid Gland | * Pituitary Gland | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

AUTO PRECLUDES DIAG.

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | Lymph Node | * Lymph Node, Mesenteric |
| * Pancreas | * Spleen | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Lung | | Hemorrhage | Marked |
| | [Hemorrhage TGLs = 5-2] | | |
| * Mammary Gland | | Galactocele | Minimal |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 2-7] | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Thymus | | Atrophy | Mild |
| * Thyroid Gland | Follicle | Hypertrophy | Mild |
| * Uterus | | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 275

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Mild
		Inflammation	Chronic, Minimal
Lymph Node		Ectasia	Marked
		Hemorrhage	Marked
[Ectasia TGLs = 1-21]			
[Hemorrhage TGLs = 1-21]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactocele	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Pigmentation	Mild
* Stomach, Forestomach		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLs = 2-4-1]			
* Thyroid Gland	Follicle	Degeneration	Moderate
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 276

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Mild
* Kidney	Renal Tubule	Atrophy	Minimal
	Papilla	Infiltration Cellular	Mononuclear CI, Minimal
		Necrosis	Mild
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic, Mild
	[Hepatocellular Adenoma TGLs = 3-21]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 4-22]		
* Ovary		Cyst	Mild
	[Cyst TGLs = 2-7]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Hyperplasia	Moderate
		Pigmentation	Mild
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	Follicle	Degeneration	Mild
* Uterus		Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 1-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 277

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104277

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* 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, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
Lymph Node		Pigmentation	Moderate
[Pigmentation TGLs = 6-24]			
* Lymph Node, Mandibular		Pigmentation	Moderate
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 2-22, 5-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Edema	Moderate
	Epidermis, Tail	Hyperplasia	Minimal
		Inflammation	Acute, Moderate
		Ulcer	Marked

Note: TGL 1-21 included numerous cocci bacteria.

Note: Ulcerations extended deep below the dermis with exposure of the coccygeal vertebrae.

[Edema TGLs = 1-21]

[Hyperplasia TGLs = 1-21]

[Inflammation TGLs = 1-21]

[Ulcer TGLs = 1-21]

* Spleen

Accessory Spleen

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 277

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104277

ORGAN AND ACCOUNTABLE SITE STATUS

Hematopoietic Cell Proliferation

Marked

Note: Accessory spleen observed on slide 7.1.

[Hematopoietic Cell Proliferation TGLs = 4-6]

* Thymus

Atrophy

Minimal

Cyst

Mild

Hyperplasia

Lymphoid, Mild

* Thyroid Gland

Follicle

Degeneration

Mild

* Uterus

Hyperplasia

Cystic, Minimal

[Hyperplasia TGLs = 3-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 278

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|--------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Mild |
| Note: TGL 3 = NCL | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Minimal |
| Lymph Node | | Ectasia | Marked |
| [Ectasia TGLs = 1-22] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Mild |
| * Ovary | | Cyst | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Saliv Glands | | | |
| Note: Salivary glands were present on slide 8. | | | |
| * Spleen | Lymph Follic | Hyperplasia | Mild |
| | | Pigmentation | Mild |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLs = 2-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 279

TRT#: 4

SEX: Female

DAY ON TEST: 712

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

MISSING

* Thymus

AUTO PRECLUDES DIAG.

* Eye	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Spleen	* Stomach, Glandular		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Hyperplasia	Focal, Moderate
	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Marked
Note: Over lying skin contained black pigment (tatoo ink)			
[Fibro-Osseous Lesion TGLs = 5-22]			
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic, Mild
	Kupffer Cell	Pigmentation	Minimal
[Hepatocellular Carcinoma TGLs = 3-21]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Note: Metastatic hepatocellular carcinoma-intravascular tumor emboli			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactocele	Minimal
* Skin	Lip	Foreign Body	Mild
	Lip	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 279

TRT#: 4

SEX: Female

DAY ON TEST: 712

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104279

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Cyst

* Uterus

Follicle

Hypertrophy

Moderate

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 280

TRT#: 4

SEX: Female

DAY ON TEST: 522

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|------------------------|----------------------|-------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Mammary Gland |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Pancreas | * Thymus | | |

INSUFFICIENT TISSUE

- | | |
|-------|-------------------|
| * Eye | * Pituitary Gland |
|-------|-------------------|

OBSERVATIONS

- | | | | |
|---|--------------|---------------------|---------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone Marrow | | Histiocytic Sarcoma | |
| * Heart | | Histiocytic Sarcoma | |
| | | Mineralization | Minimal |
| Note: Histiocytic sarcoma cells observed in ventricular lumen | | | |
| * Kidney | Renal Tubule | Degeneration | Minimal |
| | | Histiocytic Sarcoma | |
| Note: Intravascular | | | |
| * Liver | | Fibrosis | Mild |
| | | Histiocytic Sarcoma | |
| [Fibrosis TGLs = 5-23] | | | |
| [Histiocytic Sarcoma TGLs = 4-6] | | | |
| * Lung | | Histiocytic Sarcoma | |
| [Histiocytic Sarcoma TGLs = 6-2] | | | |
| * Lymph Node, Mandibular | | Histiocytic Sarcoma | |
| * Lymph Node, Mesenteric | | Histiocytic Sarcoma | |
| Mesentery | Fat | Necrosis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 280

TRT#: 4

SEX: Female

DAY ON TEST: 522

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104280

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLs = 1-21, 3-22]

* Spleen

Histiocytic Sarcoma

[Histiocytic Sarcoma TGLs = 2-6]

* Thyroid Gland

Follicle

Hypertrophy

Moderate

* Uterus

Histiocytic Sarcoma

PRIMARY CAUSE OF DEATH

- Spleen Histiocytic Sarcoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 281

TRT#: 4

SEX: Female

DAY ON TEST: 421

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| Oral Mucosa | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Spleen | * Stomach, Forestomach | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--|----------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| Lymph Node | | Hyperplasia | Lymphoid, Mild |
| [Hyperplasia TGLs = 3-3] | | | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| * Nose | | Inflammation | Acute, Minimal |
| Note: Moderate amounts of keratin present in nasal cavity may have been cause of abnormal breathing | | | |
| Note: This lesion was actually hyperkeratosis (not in LDASII) and not hyperplasia. Moderate amounts of laminated keratin was observed in nasal cavity. | | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Hyperkeratosis | Moderate |
| * Stomach, Glandular | | Inflammation | Acute, Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| * Uterus | | Hyperplasia | Cystic, Mild |
| [Hyperplasia TGLs = 1-7] | | | |

PRIMARY CAUSE OF DEATH - Skin Hyperkeratosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 575

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Bone		Fibro-Osseous Lesion	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Minimal
* Lung			
	Note: Intravascular tumor embolus. Similar cells to those observed in TGL1		
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Galactoceles	Minimal
Mesentery		Cyst	
	[Cyst TGLs = 1-21]		
* Ovary		Cyst	Mild
	[Cyst TGLs = 2-7]		
* Pancreas			
	Note: Cyst wall contained intravascular tumor emboli. Round cells arranged in packets. Cells had eccentric oval nucleus and abundant granular basophilic cytoplasm.		
	Note: Tumor cells had a neuroendocrine appearance and may have been pancreatic islet origin.		
	Note: Cuboidal lined cyst with thick fibrous wall (collagen, fibroblasts, neovascularization, necrosis, hemorrhage, macrophages with brown intracytoplasmic pigment).		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 575

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104282

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Degeneration

Moderate

Follicle

Hypertrophy

Minimal

* Uterus

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Mesentery Cyst

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 283

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------|----------------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Minimal |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| Mesentery | | Accessory Spleen | |
| | [Accessory Spleen TGLs = 1-21] | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |
| * Skin | | Inflammation | Chronic, Minimal |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Uterus | | Hyperplasia | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Marked
* Bone		Fibro-Osseous Lesion	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hemorrhage	Mild
		Hepatocellular Adenoma	
		Inflammation	Chronic, Minimal
	[Hemorrhage TGLs = 1-21, 4-22]		
	[Hepatocellular Adenoma TGLs = 1-21]		
* Lymph Node, Mandibular		Pigmentation	Moderate
* Mammary Gland		Galactoceles	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follicle	Hyperplasia	Marked
	[Hyperplasia TGLs = 3-6]		
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104284

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 2-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 618

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Brain | * Esophagus |
| * Eye | * Gallbladder | * 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 | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Skin | * Stomach, Forestomach | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|---|--------------|----------------------------------|--------------------------|
| * Adrenal Cortex | | Hematopoietic Cell Proliferation | Moderate |
| | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Marked |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLs = 4-24] | | | |
| * Pancreas | | Atrophy | Moderate |
| | | Cyst | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | | Necrosis | Mild |
| [Cyst TGLs = 7-25] | | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| Skeletal Muscle | | Rhabdomyosarcoma | |
| [Rhabdomyosarcoma TGLs = 1-21, 2-22, 3-23] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| [Hematopoietic Cell Proliferation TGLs = 9-6] | | | |
| * Stomach, Glandular | | Mineralization | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 618

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104285

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Minimal
		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal
Tissue NOS	Fat	Fibrosis	Marked
	Fat	Inflammation	Chronic Active, Moderate
	Fat	Necrosis	Mild

Note: Lesions 6-27, 8-26 were similar and present on surface of jejunum or spleen and extended into mesenteric fat. Lesion also observed on slide 4

[Fibrosis TGLs = 6-27, 8-26]

[Inflammation TGLs = 6-27, 8-26]

[Necrosis TGLs = 6-27, 8-26]

* Uterus		Hyperplasia	Cystic, Minimal
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PRIMARY CAUSE OF DEATH - Skeletal Muscle Rhabdomyosarcoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Skin	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Thyroid Gland
---------------------	-----------------

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Inflammation	Chronic, Mild
		Necrosis	Focal, Mild
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactocele	Minimal
* Nose			
Note: Dilated gland filled with eosinophilic proteinaceous material-no inflammation. G.M.S. stain negative.			
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Note: Hyperplasia included angiectasis.			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-21]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
	[Hyperplasia TGLs = 3-4-1]		
* Stomach, Glandular	Glands	Ectasia	Focal, Minimal
* Thymus		Atrophy	Minimal
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 1-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Clitoral Gland |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Ovary | * Parathyroid Gland | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|---|--------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Marked |
| | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 7 = NCL | | | |
| * Brain | | Compression | Mild |
| * Esophagus | | Inflammation | Chronic, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| Note: Slide 24-artifact present-adenoma cells appeared flattened. | | | |
| [Alveolar/Bronchiolar Adenoma TGLs = 5-24] | | | |
| Lymph Node | | Ectasia | Moderate |
| | | Hemorrhage | Marked |
| [Ectasia TGLs = 4-22] | | | |
| [Hemorrhage TGLs = 4-22] | | | |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Mild |
| | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2-21] | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104287

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 6-1]			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Skin		Infiltration Cellular	Mast Cell, Minimal
Note: Slide 8-1 was stained with toluidine blue, but lesion was not present on special stained slides.			
* Spleen	Lymph Follic	Hyperplasia	Marked
		Pigmentation	Minimal
[Hyperplasia TGLs = 1-6]			
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Moderate
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 3-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 690

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung |
| * Lymph Node, Mesenteric | * Pancreas | * Parathyroid Gland | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|-------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Tension Lipidosis | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Mild |
| * Nose | | Inflammation | Acute, Minimal |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 3-7] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Hemorrhage | Mild |
| [Hemorrhage TGLs = 1-8-1] | | | |
| * Spleen | | Pigmentation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Marked |
| | | Inflammation | Mild |
| | | Squamous Cell Papilloma | |
| [Hyperplasia TGLs = 6-21] | | Ulcer | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 690

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104288

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Ulcer

Minimal

* Thymus

Atrophy

Marked

* Uterus

Hyperplasia

Cystic, Marked

[Hyperplasia TGLs = 2-7]

PRIMARY CAUSE OF DEATH - Liver Fatty Change

CONTRIBUTORY CAUSE OF DEATH - Stomach, Forestomach Ulcer

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|--------------|-------------------|----------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Islets, Pancreatic |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Skin | * Trachea | * Urinary Bladder | |

AUTO PRECLUDES DIAG.

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mesenteric | * Pituitary Gland | * Spleen | * Stomach, Glandular |
| * Thymus | | | |

OBSERVATIONS

- | | | | |
|--------------------------|---|-------------------------------|----------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Heart | | Histiocytic Sarcoma | |
| | | Mineralization | Mild |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| | Renal Tubule | Dilatation | Minimal |
| | | Histiocytic Sarcoma | |
| * Liver | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 1-6, 2-21, 3-22] | | |
| * Lung | | Histiocytic Sarcoma | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLs = 4-23] | | |
| * Ovary | | Histiocytic Sarcoma | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |
| * Skin | | | |
| | Note: Slides 8 and 8.1 at junction of skin and vagina | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Mild |
| | | Ulcer | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110520104289

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Hypertrophy

Moderate

* Uterus

Histiocytic Sarcoma

[Histiocytic Sarcoma TGLs = 5-24]

Vagina

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104290

ORGAN AND ACCOUNTABLE SITE STATUS

	[Lymphoma Malignant	TGLs = 4-23]		
	[Lymphoma Malignant	TGLs = 3-22]		
	[Lymphoma Malignant	TGLs = 2-21]		
* Lymph Node, Mandibular			Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 1-8]		
* Lymph Node, Mesenteric			Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 8-5]		
* Mammary Gland			Galactocele	Moderate
* Ovary			Cyst	Mild
	[Cyst	TGLs = 6-7]		
* Pancreas			Atrophy	Minimal
			Lymphoma Malignant	
* Pituitary Gland		Pars Distalis	Adenoma	
	Note: Adenoma included marked angiectasis.			
	[Adenoma	TGLs = 15-1]		
* Salivary Glands			Lymphoma Malignant	
* Skin			Inflammation	Chronic Active, Mild
		Lip	Inflammation	Chronic Active, Mild
* Spleen			Lymphoma Malignant	
	[Lymphoma Malignant	TGLs = 10-6]		
* Thymus			Lymphoma Malignant	
* Thyroid Gland		Follicle	Degeneration	Mild
		Follicle	Hypertrophy	Minimal
* Uterus			Hyperplasia	Cystic, Minimal
	[Hyperplasia	TGLs = 7-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 291

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|---------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 5 = NCL | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic, Mild |
| Lymph Node | | Ectasia | Marked |
| | | Hemorrhage | Marked |
| [Ectasia TGLs = 4-21] | | | |
| [Hemorrhage TGLs = 4-21] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Marked |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2-22] | | | |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Mild |
| | | Pigmentation | Minimal |
| * Stom Gland | | | |
| Note: Cystic structure located near boarder of forestomach/glandular stomach-back ground change. | | | |
| * Thyroid Gland | Follicle | Degeneration | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 291

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104291

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Minimal

Polyp Stromal

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 292

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Nose | * Ovary | * Parathyroid Gland |
| * Skin | * Stomach, Forestomach | * Trachea | * Urinary Bladder |

MISSING

Blood Vessel

INSUFFICIENT TISSUE

* Lymph Node, Mesenteric

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| Note: TGL 2 = NCL | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Minimal |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Mild |
| | | Pigmentation | Mild |
| * Mammary Gland | | Inflammation | Chronic, Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Mild |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 292

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104292

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicle	Cyst Hyperplasia Hypertrophy	Mild Lymphoid, Mild Minimal
* Uterus		Hyperplasia	Cystic, Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------------------------|--------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Mild |
| Lymph Node | | Pigmentation | Mild |
| [Pigmentation TGLs = 4-22] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Lymph Node, Mesenteric | | Ectasia | Mild |
| | | Hemorrhage | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLs = 1-21] | | | |
| * Ovary | | Cyst | Mild |
| [Cyst TGLs = 2-7] | | | |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| Note: Melanoma observed on slide 8. | | | |
| * Thymus | | Cyst | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104293

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicle	Hyperplasia Degeneration	Lymphoid, Marked Mild
* Uterus	Follicle	Hypertrophy Hyperplasia	Mild Cystic, Moderate
[Hyperplasia TGLs = 3-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 294

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|----------------------------|----------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| * Lung | | Hemorrhage | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLs = 1-21] | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Parathyroid Gland | | Cyst | Mild |
| * Spleen | | Pigmentation | Mild |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| * Uterus | | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLs = 2-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 473

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Parathyroid Gland | Skeletal Muscle | Spinal Cord |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Gallbladder

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|--|--------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Mild |
| | | Inflammation | Chronic, Minimal |
| Note: Macrovesiculation. Midzonal to periportal | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | | |
| Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation. | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| Note: Lesion was observed on slide # 4 | | | |
| Peripheral Nerve | Sciatic | Degeneration | Mild |
| Note: Wallerian degeneration | | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Hemorrhage | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 473

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104295

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Acute, Mild

[Hemorrhage TGLs = 4-22]

[Inflammation TGLs = 4-22]

Pigmentation

Mild

* Spleen

Degeneration

Moderate

* Thyroid Gland

Follicle

Hypertrophy

Minimal

Follicle

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLs = 1-7]

PRIMARY CAUSE OF DEATH

- Peripheral Nerve Sciatic Degeneration

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 296

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * 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 | * Nose | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------|--------------------------------|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Marked |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLs = 2-21, 3-22] | | |
| * Ovary | | Cystadenoma | |
| | [Cystadenoma TGLs = 5-7] | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Intermed | Adenoma | |
| | Pars Distalis | Hyperplasia | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Skin | Epidermis, Tail | Hyperplasia | Minimal |
| | | Mineralization | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 296

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104296

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 6-23]			
[Mineralization TGLs = 6-23]			
* Spleen	Lymph Follic	Hyperplasia	Mild
[Hyperplasia TGLs = 1-6]			
* Thymus		Cyst	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 4-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 297

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|----------------------------|--------------|------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 3 = NCL | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Fatty Change | Mild |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| * Lymph Node, Mandibular | | Pigmentation | Marked |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 2-21] | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Minimal |
| [Hyperplasia TGLs = 1-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 298

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|------------------|-------------------|
| * Clitoral Gland | * Harderian Gland |
|------------------|-------------------|

OBSERVATIONS

- | | | | |
|---------------------------------|----------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Mild |
| | | Pigmentation | Mild |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLs = 3-21, 4-22] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follicle | Hyperplasia | Mild |
| [Hyperplasia TGLs = 1-6, 2-6] | | | |
| * Thymus | | Atrophy | Minimal |
| | | Hyperplasia | Lymphoid, Mild |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Eye | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Parathyroid Gland | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|--------------------------|---|-----------------------------------|----------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Moderate |
| * Adrenal Medulla | | Pigmentation | Mild |
| * Esophagus | Muscularis | Degeneration | Mild |
| * Harderian Gland | | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 2-12] | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Mild |
| * Liver | | Inflammation | Chronic, Mild |
| | | Tension Lipidosis | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| | Note: Hyperplastic lesion included angiectasis. | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Mild |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Mild |
| | [Hyperplasia TGLs = 1-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 715

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | | Hematopoietic Cell Proliferation | Minimal |
| | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Brain | | Compression | Mild |
| | [Compression TGLs = 8-1] | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Minimal |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | [Alveolar/Bronchiolar Adenoma TGLs = 7-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Minimal |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 4-7] | | |
| * Pancreas | | Atrophy | Mild |
| | | Cyst | Mild |
| * Pituitary Gland | Pars Intermed | Adenoma | |
| | [Adenoma TGLs = 9-1] | | |
| Skeletal Muscle | | Rhabdomyosarcoma | |
| | [Rhabdomyosarcoma TGLs = 1-22] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 715

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104300

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Mineralization	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLs = 3-6]		
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal
* Uterus		Hemorrhage	Mild
		Hyperplasia	Cystic, Mild
	[Hemorrhage TGLs = 5-7]		
	[Hyperplasia TGLs = 5-7]		

PRIMARY CAUSE OF DEATH - Skeletal Muscle Rhabdomyosarcoma
 CONTRIBUTORY CAUSE OF DEATH - Brain Compression
 - Pituitary Gland Pars Intermed Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 301

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Stomach, Forestomach | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Adenoma | |
| | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 4 = NCL | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Lymph Node, Mesenteric | | Ectasia | Mild |
| [Ectasia TGLs = 2-5] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 3-21] | | | |
| * Nose | | | |
| Note: Eosinophilic proteinaceous and crystalline material in nasal cavity-no inflammation. | | | |
| * Skin | | Inflammation | Chronic, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 301

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104301

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Glands

Ectasia

Focal, Mild

* Thyroid Gland

Follicle

Hypertrophy

Mild

* Uterus

Hyperplasia

Cystic, Minimal

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 302

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Intestine Small, Jejunum | | Carcinoma | |
| | | Inflammation | Acute, Mild |
| Note: Inflammation observed on slide 3.
[Carcinoma TGLs = 5-25] | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Fatty Change | Minimal |
| | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Focal, Mild |
| [Eosinophilic Focus TGLs = 3-23, 4-24]
[Hepatocellular Adenoma TGLs = 1-21, 2-22] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 302

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104302

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Minimal
		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Mild
		Polyp Stromal	
	[Hyperplasia TGLs = 6-7]		
	[Polyp Stromal TGLs = 6-7]		

Experiment Number: 20209 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
 CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
 Time Report Requested: 15:47:52
 First Dose M/F: 02/25/08 / 02/25/08
 Lab: SRI

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic, Minimal
		Tension Lipidosis	Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Minimal
			[Necrosis TGLs = 2-21]
* Ovary		Cyst	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Moderate
			[Hyperplasia TGLs = 1-7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Minimal |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: Slide 25 | | | |
| * Brain | | Compression | Marked |
| [Compression TGLs = 7-1] | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | Kupffer Cell | Pigmentation | Mild |
| [Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-6] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Mild |
| | | Hyperplasia | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 4-23] | | | |
| * Nose | | Inflammation | Acute, Moderate |
| * Pancreas | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104304

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLs = 8-1]	Pars Distalis	Adenoma	
* Salivary Glands Spinal Cord Note: Slide 25		Infiltration Cellular Degeneration	Mononuclear CI, Minimal Moderate
* Spleen		Pigmentation	Marked
* Stomach, Forestomach	Epithelium	Erosion Hyperplasia Inflammation	Minimal Marked Minimal
[Erosion TGLs = 9-24] [Hyperplasia TGLs = 9-24] [Inflammation TGLs = 9-24]			
* Thymus		Cyst	Mild
* Uterus [Hyperplasia TGLs = 5-7]		Hyperplasia	Cystic, Marked

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 575

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|---------------------|-----------------|
| * Parathyroid Gland | * Thyroid Gland |
|---------------------|-----------------|

OBSERVATIONS

- | | | | |
|--------------------------|---|----------------------------------|-------------------------|
| * Adrenal Cortex | | Hematopoietic Cell Proliferation | Moderate |
| | Capsule | Hyperplasia | Mild |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Marked |
| * Eye | Cornea | Inflammation | Acute, Minimal |
| * Kidney | Renal Tubule | Degeneration | Moderate |
| | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Mild |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| Lymph Node | Iliac | Hyperplasia | Plasma Cell, Moderate |
| | [Hyperplasia TGLs = 4-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLs = 1-21] | | |
| * Pancreas | | Atrophy | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| | [Hematopoietic Cell Proliferation TGLs = 3-6] | | |
| * Stom Gland | | | |
| Note: TGL 7 = NCL | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 575

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104305

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Marked

* Uterus

Hyperplasia

Cystic, Marked

Inflammation

Acute, Marked

Necrosis

Marked

Note: Slide 23 contained an additional section of uterus.

[Hyperplasia TGLs = 5-7]

[Inflammation TGLs = 5-7]

[Necrosis TGLs = 5-7]

PRIMARY CAUSE OF DEATH

- Uterus Necrosis

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	[Eosinophilic Focus TGLs = 4-22]		
	[Hepatocellular Adenoma TGLs = 3-21]		
* Mammary Gland		Galactocele	Mild
		Hyperplasia	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Ovary | * Parathyroid Gland | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------------|---------------------------|------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 3 = NCL | | | |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Heart | | Hemorrhage | Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Mild |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| [Alveolar/Bronchiolar Adenoma | TGLs = 1-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | Inflammation | Acute, Minimal |
| * Pancreas | | Atrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Pigmentation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104307

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Degeneration

Mild

* Uterus

Hyperplasia

Cystic, Moderate

[Hyperplasia TGLs = 2-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| 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 | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Skin | * Stomach, Forestomach |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

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

OBSERVATIONS

- | | | | |
|--|-------------------|----------------------|----------|
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Gallbladder | | Lymphoma Malignant | |
| * Kidney | | Lymphoma Malignant | |
| [Lymphoma Malignant | TGLs = 6-5, 7-5] | | |
| * Liver | | Lymphoma Malignant | |
| [Lymphoma Malignant | TGLs = 2-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| | | Lymphoma Malignant | |
| | | Thrombosis | Minimal |
| [Lymphoma Malignant | TGLs = 11-2] | | |
| Lymph Node | Renal | Lymphoma Malignant | |
| | | Lymphoma Malignant | |
| | Iliac | Lymphoma Malignant | |
| | Mediastinal | Lymphoma Malignant | |
| Note: Bform-PA048 (IANR) TGL 8-22, site of lesion listed as mesenteric lymph node. Note in section 24 of IANR lists site as hepatic lymph nodes. | | | |
| [Lymphoma Malignant | TGLs = 4-21] | | |
| [Lymphoma Malignant | TGLs = 8-22] | | |
| [Lymphoma Malignant | TGLs = 9-23] | | |
| [Lymphoma Malignant | TGLs = 10-24] | | |
| * Lymph Node, Mandibular | | Lymphoma Malignant | |
| * Lymph Node, Mesenteric | | Ectasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104308

ORGAN AND ACCOUNTABLE SITE STATUS

Lymphoma Malignant

[Lymphoma Malignant TGLs = 5-5-1]

* Ovary

Lymphoma Malignant

* Pancreas

Lymphoma Malignant

* Parathyroid GI

Note: Parathyroid gland present on slide 3 adjacent to trachea.

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

* Salivary Glands

Lymphoma Malignant

* Spleen

Lymphoma Malignant

[Lymphoma Malignant TGLs = 3-6]

* Stomach, Glandular

Lymphoma Malignant

* Thyroid Gland

Follicle

Degeneration

Mild

Follicle

Hypertrophy

Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|---|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | Capsule | Hyperplasia | Moderate |
| | | Hypertrophy | Focal, Minimal |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 6 = NCL | | | |
| * Harderian Gland | | Adenoma | |
| [Adenoma TGLs = 5-24] | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | Kupffer Cell | Pigmentation | Minimal |
| [Hepatocellular Adenoma TGLs = 3-21] | | | |
| * Lung | | Mineralization | Minimal |
| Lymph Node | | Pigmentation | Moderate |
| [Pigmentation TGLs = 4-22] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Nose | | Inflammation | Acute, Minimal |
| Note: Eosinophilic proteinaceous material in nasal cavity. G.M.S. stain-negative. | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104309

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Minimal
	[Hyperplasia TGLs = 7-25]		
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Minimal
* Uterus		Histiocytic Sarcoma	
		Hyperplasia	Cystic, Moderate
	[Histiocytic Sarcoma TGLs = 2-7]		
	[Hyperplasia TGLs = 1-7]		

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| | Centrilobular, Hepatocyte | Fatty Change | Mild |
| | | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Moderate |

[Hyperplasia TGLs = 1-7, 2-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 311

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|----------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Adenoma | |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Kidney | Renal Tubule | Atrophy | Mild |
| | | Infiltration Cellular | Mononuclear CI, Mild |
| | | Nephropathy | Minimal |
| * Liver | | Hemorrhage | Minimal |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | Kupffer Cell | Inflammation | Chronic, Mild |
| | [Hemorrhage TGLs = 1-21] | Pigmentation | Mild |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | | |
| Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation. | | | |
| * Ovary | | Cyst | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| * Stomach, Glandular | Glands | Ectasia | Focal, Moderate |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Moderate |
| | [Hyperplasia TGLs = 2-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 312

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|--|---------------------------|------------------------|----------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| | Capsule | Hyperplasia | Marked |
| | | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| Note: TGL 3 = NCL | | | |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Mild |
| * Liver | | Eosinophilic Focus | |
| | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | | Hypertrophy | Minimal |
| | | Inflammation | Chronic, Mild |
| [Hepatocellular Adenoma TGLs = 1-21, 2-22] | | | |
| * Lung | | Cyst | Mild |
| Note: Cyst was an ectatic peribronchial gland. | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | | |
| Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation. | | | |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Parathyroid Gland | | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| Note: Lesion included angiectasis. | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 312

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104312

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

* Spleen

* Uterus

Lymph Follic

Infiltration Cellular

Hyperplasia

Pigmentation

Hyperplasia

Mononuclear CI, Minimal

Mild

Minimal

Cystic, Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Moderate
		Hemorrhage	Mild
		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Minimal
Note: Additional adenoma observed on slide 6.			
[Eosinophilic Focus TGLs = 6-24]			
[Hepatocellular Adenoma TGLs = 1-21]			
Lymph Node		Pigmentation	Moderate
[Pigmentation TGLs = 4-22]			
* Lymph Node, Mandibular		Infiltration Cellular	Mast Cell, Moderate
		Pigmentation	Minimal
Note: Infiltrating round cells were Toluidine blue positive.			
* Mammary Gland		Galactoceles	Mild
		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104313

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Necrosis included fibrous capsule and marked mineralization.

[Necrosis TGLs = 3-23]

* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5-1]		
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Stomach, Forestomach		Infiltration Cellular	Mast Cell, Minimal
		Note: Infiltrating round cells were Toluidine blue positive. Mast cell tumor benign (diagnosis not available in LDASII for forestomach).	
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 2-7]		

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 314

TRT#: 6

SEX: Female

DAY ON TEST: 677

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Trachea
- Blood Vessel
- * Eye
- * Intestine Large, Rectum
- * Nose
- * Pituitary Gland
- * Urinary Bladder
- * Bone Marrow
- * Gallbladder
- * Intestine Small, Duodenum
- * Ovary
- * Skin
- * Uterus
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Pancreas
- * Stomach, Forestomach

OBSERVATIONS

- * Adrenal Cortex Capsule Hyperplasia Mild
- * Bone Fibro-Osseous Lesion Mild
- * Brain Necrosis Moderate
- Note: Necrosis bilateral and involved primarily the hippocampus.
- * Harderian Gland Adenoma
- [Adenoma TGLs = 10-12]
- * Heart Mineralization Moderate
- * Islets, Pancreatic Adenoma
- * Kidney Mineralization Minimal
- Renal Tubule Necrosis Moderate
- Renal Tubule Vacuolization Cytoplasmic Mild
- * Liver Hepatocyte Cytoplasmic Alteration Moderate
- Fatty Change Mild
- Centrilobular Mineralization Mild
- Centrilobular Necrosis Moderate
- Note: Hepatocytes were enlarged, pale and had microvesiculation of cytoplasm. Cells in periportal regions also had macrovesiculation.
- [Cytoplasmic Alteration TGLs = 6-6]
- [Mineralization TGLs = 6-6]
- [Necrosis TGLs = 5-21, 6-6]
- * Lung Alveolar/Bronchiolar Adenoma
- Mineralization Minimal
- [Alveolar/Bronchiolar Adenoma TGLs = 8-22]
- * Lymph Node, Mandibular Pigmentation Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 314

TRT#: 6

SEX: Female

DAY ON TEST: 677

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104314

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Atrophy	Moderate
* Mammary Gland		Galactocele	Mild
* Salivary Glands		Atrophy	Moderate
		Mineralization	Moderate
Skeletal Muscle		Hemorrhage	Marked
		Mineralization	Mild
		Necrosis	Marked
	[Hemorrhage TGLs = 9-23, 9-23-1, 9-23-2]		
	[Necrosis TGLs = 9-23, 9-23-1, 9-23-2]		
Spinal Cord		Degeneration	Mild
Note: Wallerian degeneration			
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Moderate
	[Atrophy TGLs = 2-6]		
* Stomach, Glandular	Glands	Ectasia	Focal, Mild
		Inflammation	Acute, Moderate
		Ulcer	Marked
	[Inflammation TGLs = 4-4-1]		
	[Ulcer TGLs = 4-4-1]		
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Degeneration	Mild

PRIMARY CAUSE OF DEATH - Brain Necrosis

CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Necrosis

Animal Note: Many tissues (including skeletal muscle, fat) had mineralization.

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
		Hypertrophy	Diffuse, Minimal
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear Cl, Minimal
* Liver		Eosinophilic Focus	
	Centrilobular, Hepatocyte	Hepatocellular Adenoma	Multiple
		Hypertrophy	Mild
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Minimal
[Hepatocellular Adenoma	TGLs = 2-21, 3-22, 4-23, 5-24, 6-25]		
Lymph Node		Ectasia	Moderate
[Ectasia TGLs = 8-26]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactoceles	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
Note: Adenoma included angiectasis.			
[Adenoma TGLs = 9-1]			
* Spleen	Lymph Follic	Atrophy	Mild
		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104315

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

[Squamous Cell Papilloma TGLs = 10-27]

Squamous Cell Papilloma

* Uterus

[Hyperplasia TGLs = 7-7]

Hyperplasia

Cystic, Marked

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 656

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------------------|------------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Intestine Large, Rectum | | Rhabdomyosarcoma | Metastatic (Skeletal Muscle) |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| Note: Hypertrophied centrilobular cells were ~2-3 x larger than periportal cells.
[Hepatocellular Adenoma TGLs = 1-6] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Rhabdomyosarcoma | Metastatic (Skeletal Muscle) |
| * Pancreas | | Inflammation | Chronic, Minimal |
| Note: slide 4 | | | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| * Salivary Glands | | Mineralization | Minimal |
| Skeletal Muscle | | Rhabdomyosarcoma | |
| [Rhabdomyosarcoma TGLs = 2-21, 2-21-1, 2-21-2, 2-21-3] | | | |
| * Skin | Epidermis, Tail | Hyperplasia | Mild |
| | Subcut Tiss | Rhabdomyosarcoma | Metastatic (Skeletal Muscle) |
| [Hyperplasia TGLs = 3-22] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 656

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104316

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH	- Skeletal Muscle Rhabdomyosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Liver Hepatocellular Adenoma
	- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * 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 |
| * Nose | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| | | Hypertrophy | Focal, Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| Note: TGL 2 = NCL | | | |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Fatty Change | Mild |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Marked |
| | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| * Spleen | | Pigmentation | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| | Follicle | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104317

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Hyperplasia TGLs = 1-7]

Hyperplasia

Cystic, Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 563

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Mild
	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Metaplasia	Osseous, Minimal
* Liver		Fatty Change	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
	Kupffer Cell	Pigmentation	Minimal
	[Hepatocellular Adenoma TGLs = 2-22]		
	Lymph Node	Ectasia	Marked
		Hemorrhage	Moderate
	[Ectasia TGLs = 6-7]		
	[Hemorrhage TGLs = 6-7]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactoceles	Minimal
* Pancreas		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 563

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104318

ORGAN AND ACCOUNTABLE SITE STATUS

Skeletal Muscle

[Rhabdomyosarcoma TGLs = 1-21]

Rhabdomyosarcoma

* Spleen

[Hematopoietic Cell Proliferation TGLs = 4-6]

Hematopoietic Cell Proliferation

Marked

* Thymus

Atrophy

Marked

* Thyroid Gland

Follicle

Degeneration

Mild

Follicle

Hypertrophy

Minimal

* Uterus

Hyperplasia

Cystic, Marked

[Hyperplasia TGLs = 5-7]

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Rhabdomyosarcoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic, Mild
	Kupffer Cell	Pigmentation	Mild
	[Hepatocellular Adenoma TGLs = 2-6, 3-22]		
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Ectasia	Moderate
* Mammary Gland		Galactocele	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
* Spleen		Pigmentation	Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Hypertrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104319

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Hyperplasia TGLs = 4-7]

Hyperplasia

Cystic, Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Focal, Mild
* Bone		Fibro-Osseous Lesion	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Clear Cell Focus	
		Fatty Change	Minimal
		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactoceles	Minimal
* Pancreas		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Mild
		Hyperplasia	Lymphoid, Minimal
* Uterus		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hemorrhage | Minimal |
| | | Hepatocellular Adenoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| [Hepatocellular Adenoma | TGLs = 2-6] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Ovary | | Cyst | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Skin | | Inflammation | Chronic, Mild |
| * Spleen | | Pigmentation | Mild |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104321

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 322

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Harderian Gland
- * Pancreas
- * Trachea
- * Bone Marrow
- * Islets, Pancreatic
- * Pituitary Gland
- * Urinary Bladder
- * Clitoral Gland
- * Nose
- * Salivary Glands
- * Esophagus
- * Ovary
- * Spleen

AUTO PRECLUDES DIAG.

- * Eye
- * Intestine Large, Rectum
- Lymph Node
- * Gallbladder
- * Intestine Small, Duodenum
- * Lymph Node, Mesenteric
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Stomach, Glandular
- * Intestine Large, Colon
- * Intestine Small, Jejunum

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|--|--|---|--|
| <ul style="list-style-type: none"> * Adrenal Cortex Blood Vessel * Bone * Brain * Heart * Kidney * Liver * Lung [Congestion TGLs = 6-2] Lymph Node Note: Renal and iliac lymph nodes-autolysis precludes diagnosis * Lymph Node, Mandibular * Mammary Gland * Parathyroid Gland * Skin Note: Slide 9 | <ul style="list-style-type: none"> Capsule Renal Tubule Centrilobular, Hepatocyte | <ul style="list-style-type: none"> Hyperplasia Mineralization Fibro-Osseous Lesion Hemorrhage Mineralization Dilatation Infiltration Cellular Hypertrophy Inflammation Congestion Pigmentation Galactoceles Cyst Mineralization | <ul style="list-style-type: none"> Mild Minimal Minimal Minimal Minimal Minimal Mononuclear CI, Minimal Minimal Chronic, Minimal Marked Mild Mild Mild Minimal |
|--|--|---|--|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 322

TRT#: 6

SEX: Female

DAY ON TEST: 726

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104322

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Inflammation	Minimal
		Ulcer	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Marked
		Polyp Stromal	
	[Hyperplasia TGLs = 2-7]		
	[Polyp Stromal TGLs = 3-23]		

PRIMARY CAUSE OF DEATH - Uterus Polyp Stromal

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 689

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|--------------------------|--------------------------|-----------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * Heart |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Thymus | * Trachea |
| * Urinary Bladder | | | |

AUTO PRECLUDES DIAG.

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Eye | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Pituitary Gland | * Stomach, Glandular | | |

OBSERVATIONS

- | | | | |
|----------------------|--|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatocellular Adenoma | |
| | Centrilobular, Hepatocyte | Hepatocellular Carcinoma | |
| | | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Carcinoma TGLs = 2-21] | | |
| | Lymph Node | Iliac | Hyperplasia |
| | | Renal | Hyperplasia |
| | | Renal | Pigmentation |
| | | | Mild |
| | [Hyperplasia TGLs = 6-22] | | |
| | [Hyperplasia TGLs = 7-23] | | |
| | [Pigmentation TGLs = 7-23] | | |
| * Mammary Gland | | Galactocele | Minimal |
| * Ovary | | Angiectasis | Marked |
| | | Thrombosis | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 689

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104323

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLs = 3-7]

[Thrombosis TGLs = 3-7]

* Thyroid Gland

Follicle

Degeneration

Mild

Follicle

Hypertrophy

Moderate

* Uterus

Hyperplasia

Cystic, Marked

[Hyperplasia TGLs = 4-7, 5-7]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * 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 | * Parathyroid Gland |
| * Skin | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---|---------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Liver | | Fatty Change | Mild |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| * Nose | | Foreign Body | Minimal |
| Note: Foreign body-hair shaft. Eosinophilic proteinaceous material in nasal cavity-no inflammation. | | | |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Moderate |
| | | Pigmentation | Minimal |
| * Stomach, Forestomach | | Cyst | |
| Note: Epithelial inclusion cyst
[Cyst TGLs = 2-21] | | | |
| * Thyroid Gland | Follicle | Degeneration | Minimal |
| | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Mild |
| [Hyperplasia TGLs = 1-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * 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 | * Pituitary Gland |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|------------------------------------|---------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 8 = NCL | | | |
| * Harderian Gland | | Adenoma | |
| [Adenoma TGLs = 7-24] | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| Lymph Node | Mediastinal | Lymphoma Malignant | |
| | Pancreatic | Lymphoma Malignant | |
| | Lumbar | Lymphoma Malignant | |
| [Lymphoma Malignant TGLs = 6-3] | | | |
| [Lymphoma Malignant TGLs = 2-21] | | | |
| [Lymphoma Malignant TGLs = 4-23] | | | |
| * Mammary Gland | | Galactocele | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104325

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLs = 3-22]	Fat	Inflammation Necrosis	Chronic, Minimal Minimal
* Nose Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation.			
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen [Lymphoma Malignant TGLs = 1-6]		Lymphoma Malignant	
* Thyroid Gland	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Marked

Experiment Number: 20209 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
 CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
 Time Report Requested: 15:47:52
 First Dose M/F: 02/25/08 / 02/25/08
 Lab: SRI

ANIMAL ID: 326

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Bone		Fibro-Osseous Lesion	Moderate
Note: TGL 5 = NCL [Fibro-Osseous Lesion TGLs = 3-21, 4-22]			
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
* Lymph Node, Mandibular		Pigmentation	Moderate
* Mammary Gland		Galactocele	Mild
		Hyperplasia	Minimal
* Ovary		Cystadenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follic	Atrophy	Minimal
		Pigmentation	Moderate
* Thymus		Cyst	Mild
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLs = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Diffuse, Minimal |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| Note: Additional adenoma observed on slide 6 | | | |
| [Hepatocellular Adenoma TGLs = 2-22, 3-23] | | | |
| [Hepatocellular Carcinoma TGLs = 1-21, 5-25] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | | |
| Note: Eosinophilic proteinaceous material in nose-no inflammation | | | |
| * Ovary | | Cystadenoma | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104327

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Lymphoma Malignant	
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 3

DOSE: 30 MG/KG

DISP: Dosing Accident

HISTO: 110520104328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Eye | * Gallbladder | * 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 |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

INSUFFICIENT TISSUE

- * Adrenal Medulla

OBSERVATIONS

- | | | |
|--|------------------------------------|---------------------|
| * Bone | Fibro-Osseous Lesion | Minimal |
| * Esophagus | Foreign Body | Marked |
| | Inflammation | Acute, Mild |
| Note: Serosal surface covered with pmns, bacteria, and plant material (food) | | |
| | [Foreign Body TGLs = 6-3] | |
| | [Inflammation TGLs = 5-3] | |
| * Lung | Foreign Body | Mild |
| | Inflammation | Acute, Moderate |
| Note: Pleura covered with neutrophils (pmns), bacteria, and plant material (food). | | |
| Pleura | Inflammation | Suppurative, Marked |
| Note: Thoracic wall covered with pmns, plant material (food), bacteria, fibrin and necrotic debris | | |
| | [Inflammation TGLs = 3-21, 4-21] | |
| * Thymus | Atrophy | Moderate |
| | Necrosis | Lymphoid, Minimal |
| * Thyroid Gland | Follicle Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| Blood Vessel | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Parathyroid Gland | * Skin | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Focal, Mild |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Carcinoma TGLs = 1-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2-22] | | |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104329

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Pigmentation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
	[Hyperplasia TGLs = 3-23]		
	[Inflammation TGLs = 3-23]		
* Thymus		Cyst	Mild
		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Moderate

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | Tail | Developmental Malformation | |
| | | Fibro-Osseous Lesion | Mild |
| | [Developmental Malformation TGLs = 5-25] | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | [Alveolar/Bronchiolar Adenoma TGLs = 4-24] | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | | |
| | Note: Eosinophilic proteinaceous material in nose-no inflammation. | | |
| * Skin | | Inflammation | Chronic, Minimal |
| * Stomach, Glandular | Glands | Ectasia | Focal, Mild |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| | Follicle | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104330

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Hyperplasia TGLs = 3-7]

Hyperplasia

Cystic, Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 331

TRT#: 6

SEX: Female

DAY ON TEST: 535

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|----------------------|-------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Clitoral Gland |
| * Esophagus | * Harderian Gland | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Thymus | * Trachea |
| * Uterus | | | |

MISSING

- | | | |
|---------------|-------------------|----------|
| * Gallbladder | * Pituitary Gland | * Spleen |
|---------------|-------------------|----------|

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney |
| * Stomach, Glandular | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|------------------|------------------------|----------------------|------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | Tail | Callus | Mild |
| | | Fibro-Osseous Lesion | Minimal |
| | [Callus TGLs = 8-26] | | |
| * Brain | | Hemorrhage | Minimal |
| * Heart | | Necrosis | Multifocal, Mild |
| | | Thrombosis | Moderate |

Note: Lesion included large number of small coccobacillus bacteria in heart lumen and small numbers of bacteria associated with areas of necrosis and neutrophils.

Note: Gram stain-Gram positive bacteria present

- | | | | |
|---------|----------|--------------|---------|
| * Liver | | Fatty Change | Minimal |
| | Midzonal | Necrosis | Marked |

Note: also observed on slide 6

Note: Primarily macrovesicular, but microvesicular vacuolization also observed

[Necrosis TGLs = 6-23, 7-24]

- | | | | |
|-----------|--------------------------------|----------|------|
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 1-21, 3-22] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 331

TRT#: 6

SEX: Female

DAY ON TEST: 535

DOSE: 30 MG/KG

DISP: Natural Death

HISTO: 110520104331

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Degeneration

Mild

PRIMARY CAUSE OF DEATH

- Liver Midzonal Necrosis

CONTRIBUTORY CAUSE OF DEATH

- Heart Necrosis

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| Blood Vessel | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------|-------------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | Capsule | Hyperplasia | Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Harderian Gland | | Adenoma | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | Centrilobular, Hepatocyte | Hepatocellular Adenoma | |
| | | Hypertrophy | Mild |
| | Kupffer Cell | Inflammation | Chronic, Mild |
| | [Hepatocellular Adenoma TGLs = 5-23] | Pigmentation | Minimal |
| * Lung | | Mineralization | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 2-22] | | |
| * Nose | | | |
| | Note: Eosinophilic proteinaceous and crystalline material in nasal cavity-no inflammation. | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Pigmentation | Mild |
| * Thyroid Gland | Follicle | Degeneration | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104332

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Follicle	Hypertrophy Hyperplasia	Minimal Cystic, Minimal
[Hyperplasia TGLs = 3-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 333

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * 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 |
| * Nose | * Pituitary Gland | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|--------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Mild |
| Note: TGL 7 = NCL | | | |
| * Brain | | Pigmentation | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Mild |
| | | Hemorrhage | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Eosinophilic Focus TGLs = 6-23] | | |
| | [Hepatocellular Adenoma TGLs = 1-21, 4-6, 6-23] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 3-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 333

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104333

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Inflammation	Chronic, Mild
* Salivary Glands	Infiltration Cellular	Mononuclear CI, Minimal
	Mineralization	Minimal
* Spleen	Lymphoma Malignant	
	Pigmentation	Mild
[Lymphoma Malignant TGLs = 2-22]		
* Thymus	Hyperplasia	Lymphoid, Mild
* Uterus	Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 5-7]		

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 334

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * 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 | * Pituitary Gland | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

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

INSUFFICIENT TISSUE

- * Thyroid Gland

OBSERVATIONS

- | | | | |
|------------------|--------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Hemangiosarcoma | |
| | | Hepatocellular Adenoma | Multiple |
| | | Lymphoma Malignant | |
| | | | |
| | | Lymphoma Malignant | |
| | | Inflammation | Chronic, Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Hematopoietic Cell Proliferation | Marked |

Note: TGL 2 = NCL

[Eosinophilic Focus TGLs = 7-23]

[Hemangiosarcoma TGLs = 8-24]

[Hepatocellular Adenoma TGLs = 6-22]

[Lymphoma Malignant TGLs = 3-6, 5-21, 6-22,7-23, 8-24, 9-25]

- * Lung
- * Pancreas
- * Salivary Glands
- * Spleen

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 334

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104334

ORGAN AND ACCOUNTABLE SITE STATUS

Lymphoma Malignant

[Hematopoietic Cell Proliferation TGLs = 1-6]

Hyperplasia

* Uterus

Cystic, Mild

[Hyperplasia TGLs = 4-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 695

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Brain | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Harderian Gland | | Hyperplasia | Marked |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| * Liver | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | Centrilobular | Necrosis | Mild |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Fatty Change TGLs = 3-6] | | |
| | [Hepatocellular Adenoma TGLs = 3-6] | | |
| | [Necrosis TGLs = 3-6] | | |
| Lymph Node | | Ectasia | Marked |
| | Iliac | Ectasia | Marked |
| | | Hemorrhage | Moderate |
| | Iliac | Hemorrhage | Marked |
| | | Pigmentation | Moderate |
| | Lumbar | Pigmentation | Moderate |
| | [Ectasia TGLs = 1-21] | | |
| | [Ectasia TGLs = 4-22] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 695

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104335

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLs = 1-21]

[Hemorrhage TGLs = 4-22]

[Pigmentation TGLs = 1-21]

[Pigmentation TGLs = 5-23]

* Lymph Node, Mandibular

* Mammary Gland

* Pancreas

* Pituitary Gland

* Salivary Glands

* Skin

Pars Distalis

Pigmentation

Galactocele

Inflammation

Hyperplasia

Infiltration Cellular

Foreign Body

Inflammation

Ulcer

Mild

Minimal

Chronic, Minimal

Marked

Mononuclear CI, Minimal

Minimal

Acute, Mild

Marked

Note: TGL 6-24-Ulcer extended down to bone. Vertebral bone exposed.

Note: Foreign body-plant material (bedding).

[Foreign Body TGLs = 6-24, 6-24-1]

[Inflammation TGLs = 6-24, 6-24-1]

[Ulcer TGLs = 6-24, 6-24-1]

* Spleen

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Uterus

Follicle

Hematopoietic Cell Proliferation

Pigmentation

Mineralization

Atrophy

Cyst

Degeneration

Hyperplasia

Marked

Minimal

Mild

Moderate

Mild

Minimal

Cystic, Mild

PRIMARY CAUSE OF DEATH

- Skin Ulcer

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

- Liver Centrilobular Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|---|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Mild |
| | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | | Hypertrophy | Mild |
| | [Fatty Change TGLs = 1-6] | | |
| | [Hepatocellular Adenoma TGLs = 1-6, 4-23] | | |
| | [Hypertrophy TGLs = 1-6] | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Skin | Epidermis, Tail | Hyperkeratosis | Minimal |
| | | Inflammation | Acute, Mild |
| | | Mineralization | Mild |
| | | Ulcer | Marked |

Note: TGL 2-21, 3-22 Lesions extended into muscle. Black pigment (tattoo ink) was observed in the dermis.

Note: TGL 2-21 Von Kossa stain positive for calcium (mineralization).

[Hyperkeratosis TGLs = 2-21, 3-22]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104336

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 2-21, 3-22]

[Mineralization TGLs = 2-21]

[Ulcer TGLs = 2-21, 3-22]

* Spleen

* Thymus

* Uterus

Hematopoietic Cell Proliferation

Atrophy

Cyst

Hyperplasia

Marked

Minimal

Mild

Cystic, Mild

PRIMARY CAUSE OF DEATH

- Skin Ulcer

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 337

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|---------------------------|---|---|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Moderate
Focal, Minimal |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 2 = NCL | | | |
| * Kidney | Renal Tubule | Dilatation
Infiltration Cellular | Minimal
Mononuclear CI, Minimal |
| * Liver | Centrilobular, Hepatocyte | Fatty Change
Hypertrophy
Inflammation | Minimal
Moderate
Chronic, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | | |
| Note: Eosinophilic proteinaceous material in nose-no inflammation. | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| * Spleen | Lymph Follic | Hyperplasia
Pigmentation | Moderate
Minimal |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy
Hyperplasia | Minimal
Lymphoid, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 337

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104337

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Degeneration

Mild

Follicle

Hypertrophy

Minimal

* Uterus

Hyperplasia

Cystic, Moderate

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Marked |
| | | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatocellular Adenoma TGLs = 2-21, 3-22, 4-6, 5-23, 6-24, 8-26] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactoceles | Minimal |
| * Nose | | | |
| | Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation. | | |
| * Ovary | | Cystadenoma | |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104338

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Epidermis, Tail	Hyperplasia Inflammation Ulcer	Mild Chronic Active, Marked Marked
--------	-----------------	--------------------------------------	--

Note: Ulcer is immediately overlying vertebra. Vertebra covered by serocellular exudate and necrotic debris.

[Hyperplasia TGLs = 7-25]

[Inflammation TGLs = 7-25]

[Ulcer TGLs = 7-25]

* Spleen	Lymph Follic	Hyperplasia Pigmentation	Minimal Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia Polyp Stromal	Cystic, Moderate

[Hyperplasia TGLs = 1-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
	Capsule	Hyperplasia	Moderate
* Bone		Fibro-Osseous Lesion	Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Mild
	Centrilobular, Hepatocyte	Hepatocellular Adenoma	
		Hypertrophy	Moderate
	Kupffer Cell	Inflammation	Chronic, Mild
		Pigmentation	Minimal
	[Hepatocellular Adenoma TGLs = 3-23]		
	Lymph Node	Pigmentation	Moderate
	[Pigmentation TGLs = 4-24]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactocele	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-21]		
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104339

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Minimal
		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Marked
	[Hyperplasia TGLs = 5-7]		

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 695

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Stomach, Forestomach | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|--------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Moderate |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| * Liver | | Fatty Change | Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Focal, Mild |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22] | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactoceles | Minimal |
| * Pancreas | | Cyst | Mild |
| | | Mineralization | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | Epidermis | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Moderate |
| | | Ulcer | Marked |

Note: Skin lesions observed on tail. Lesions included exudate and surface bacteria.

[Hyperplasia TGLs = 5-23]

[Inflammation TGLs = 5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 695

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104340

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLs = 5-23]

* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Glandular		Mineralization	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Marked

[Hyperplasia TGLs = 3-7]

PRIMARY CAUSE OF DEATH - Skin Ulcer
CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma
- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Mild
* Brain		Hemorrhage	Minimal
* Intestine Large, Rectum		Diverticulum	Marked
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic, Mild
		Necrosis	Focal, Minimal
	Kupffer Cell	Pigmentation	Minimal
	[Hepatocellular Adenoma TGLs = 1-21]		
* Lung		Hemorrhage	Mild
Lymph Node		Ectasia	Moderate
		Hemorrhage	Moderate
	[Ectasia TGLs = 3-22]		
	[Hemorrhage TGLs = 3-22]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactocele	Minimal
* Ovary		Cyst	Mild
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104341

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Inflammation	Chronic, Minimal
* Spleen		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Pigmentation	Mild
		Atrophy	Minimal
* Thyroid Gland	Follicle	Hyperplasia	Lymphoid, Minimal
	Follicle	Degeneration	Minimal
* Uterus		Hypertrophy	Minimal
		Hyperplasia	Cystic, Mild
[Hyperplasia TGLs = 2-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Diffuse, Minimal
* Bone		Fibro-Osseous Lesion	Mild
Note: Lesion observed in coccygeal vertebra on slides 22 and 24			
Note: TGL 4-22 included protrusion of a section of coccygeal vertebra through skin-lying on top of epidermis with keratin and serocellular exudate.			
* Esophagus	Muscularis	Degeneration	Mild
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Minimal
	Centrilobular, Hepatocyte	Hepatocellular Adenoma	
		Hypertrophy	Mild
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Minimal
[Hepatocellular Adenoma TGLs = 3-21]			
Lymph Node		Pigmentation	Moderate
Note: Lymph nodes contained black pigment.			
[Pigmentation TGLs = 5-23]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Galactocele	Marked
		Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104342

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 6-1]

* Salivary Glands

* Skin

Epidermis, Tail

Infiltration Cellular

Fibrosis

Hyperplasia

Inflammation

Ulcer

Mononuclear CI, Minimal

Marked

Moderate

Acute, Minimal

Mild

Note: Ulcer located over coccygeal vertebra.

Note: Lesion more severe on slide 22

[Fibrosis TGLs = 4-22]

[Hyperplasia TGLs = 4-22, 7-24]

[Inflammation TGLs = 7-24]

[Ulcer TGLs = 7-24]

* Thymus

* Thyroid Gland

Follicle

Follicle

Atrophy

Degeneration

Hypertrophy

Hyperplasia

Minimal

Minimal

Moderate

Cystic, Marked

Note: Cystic hyperplasia was more severe in one horn versus the other horn.

[Hyperplasia TGLs = 1-7, 2-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Mild |
| Note: TGL 4 = NCL | | | |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Tension Lipidosis | Mild |
| [Hepatocellular Adenoma TGLs = 1-6, 3-21] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | | |
| Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation. | | | |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Thymus | | Atrophy | Minimal |
| | | Hyperplasia | Lymphoid, Minimal |
| * Thyroid Gland | Follicle | Degeneration | Mild |
| | Follicle | Hypertrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104343

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Hyperplasia TGLs = 2-7]

Hyperplasia

Cystic, Marked

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---|---------------------------|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 5 = NCL | | | |
| * Harderian Gland | | Carcinoma | |
| [Carcinoma TGLs = 4-12] | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | Renal Tubule | Regeneration | Mild |
| * Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| [Hepatocellular Adenoma TGLs = 3-22] | | | |
| [Hepatocellular Carcinoma TGLs = 1-21] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Marked |
| * Mammary Gland | | Galactocele | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Nose | | Foreign Body | |
| Note: Eosinophilic proteinaceous material in nose-no inflammation | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104344

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Mild
	[Hyperplasia TGLs = 2-7]		

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Pituitary Gland | * Spleen |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--|---------------------------|-----------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | Tail | Callus | Mild |
| | | Fibro-Osseous Lesion | Minimal |
| Note: Coccygeal vertebra observed on slides 21, 21-1, 21-2, 21-3 | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 1-7] | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Edema | Moderate |
| | | Fibrosis | Minimal |
| | Epidermis, Tail | Hyperkeratosis | Mild |
| | | Inflammation | Chronic, Minimal |
| | | Ulcer | Marked |

Note: TGL 3 included chronic active inflammation. Black pigment (tattoo ink) was present in the dermis.

Note: Chronic inflammation, edema, and fibrosis observed in skin taken from ventral abdomen

[Hyperkeratosis TGLs = 3-21, 3-21-1, 3-21-2, 3-21-3]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104345

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLs = 3-21, 3-21-1, 3-21-2, 3-21-3]

* Stomach, Forestomach

Epithelium

Erosion

Minimal

Hyperplasia

Marked

Inflammation

Minimal

* Thyroid Gland

Follicle

Hypertrophy

Mild

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLs = 2-7]

PRIMARY CAUSE OF DEATH

- Skin Ulcer

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Focal, Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| Note: TGL 11 = NCL | | | |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Esophagus | Muscularis | Degeneration | Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Mild |
| | Kupffer Cell | Pigmentation | Mild |
| [Hepatocellular Adenoma | TGLs = 6-22, 7-23, 8-24, 9-25, 10-26] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis | TGLs = 4-21] | | |
| * Pancreas | | Atrophy | Marked |
| | | Cyst | Marked |
| | | Fibrosis | Moderate |
| | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104346

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Macrophages contained brown intracytoplasmic pigment.

[Atrophy TGLs = 1-7]

[Cyst TGLs = 1-7]

[Fibrosis TGLs = 1-7]

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Hyperplasia	Marked
		Pigmentation	Minimal
	[Hyperplasia TGLs = 2-6, 3-6]		
* Thymus		Atrophy	Minimal
		Cyst	Mild
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Moderate
	Bilateral	Polyp Stromal	
	[Hyperplasia TGLs = 5-7]		

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Basophilic Focus	
		Fatty Change	Mild
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Minimal

Note: Large basophilic focus-does not appear to be compressing surrounding tissue.

Lymph Node

Note: Lymph node with lymphoma, malignant observed on slide 7.

* Lymph Node, Mandibular		Lymphoma Malignant	
		Pigmentation	Mild
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 3-5]		
* Mammary Gland		Galactocele	Minimal
		Inflammation	Chronic, Minimal
* Salivary Glands		Lymphoma Malignant	
		Mineralization	Minimal
* Spleen		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104347

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 2-7]			

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 348

TRT#: 6

SEX: Female

DAY ON TEST: 598

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * 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 | * Nose | * Ovary |
| * Parathyroid Gland | Spinal Cord | * Stomach, Forestomach | * Trachea |
| * Urinary Bladder | | | |

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|---|---------------------------|--|------------------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia
Hypertrophy | Mild
Diffuse, Minimal |
| * Bone | Vertebra | Callus
Fibro-Osseous Lesion | Marked
Minimal |
| Note: Sacral vertebra. Fibrosis and hemorrhage extended into skeletal muscle. Nerve degeneration and hemorrhage present. Muscle regeneration present.
[Callus TGLs = 4-22] | | | |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Dilatation
Infiltration Cellular | Minimal
Mononuclear CI, Minimal |
| * Liver | | Eosinophilic Focus
Fatty Change
Hepatocellular Carcinoma | Minimal |
| | Centrilobular, Hepatocyte | Hypertrophy
Inflammation | Mild
Chronic, Minimal |
| [Hepatocellular Carcinoma TGLs = 1-21] | | | |
| * Lymph Node, Mandibular | | Hyperplasia
Pigmentation | Lymphoid, Minimal
Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| Peripheral Nerve | | Degeneration | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 348

TRT#: 6

SEX: Female

DAY ON TEST: 598

DOSE: 30 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104348

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
Skeletal Muscle		Fibrosis	Moderate
		Hemorrhage	Mild
		Inflammation	Chronic, Moderate
		Regeneration	Mild
	[Fibrosis TGLs = 5-23]		
	[Hemorrhage TGLs = 5-23]		
* Skin		Inflammation	Chronic Active, Minimal
Note: Slides 8-1, 9			
* Spleen		Pigmentation	Mild
* Stomach, Glandular		Mineralization	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Minimal
* Uterus		Hyperplasia	Cystic, Marked
	[Hyperplasia TGLs = 2-7]		

PRIMARY CAUSE OF DEATH - Bone Vertebra Callus

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia Hypertrophy	Moderate Focal, Minimal
* Bone		Fibro-Osseous Lesion	Mild
Note: TGL 4 = NCL			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Dilatation Infiltration Cellular	Minimal Mononuclear CI, Minimal
* Liver		Eosinophilic Focus Fatty Change	Mild
	Centrilobular, Hepatocyte	Hepatocellular Adenoma	Multiple
	Kupffer Cell	Hypertrophy Inflammation	Moderate Chronic, Mild
	[Eosinophilic Focus TGLs = 3-23]	Pigmentation	Minimal
	[Hepatocellular Adenoma TGLs = 1-21,3-23]		
* Lymph Node, Mandibular		Pigmentation	Moderate
* Mammary Gland		Galactoceles	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 2-22]			
* Nose			
Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104349

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Minimal
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Mild

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Spleen

OBSERVATIONS

- | | | | |
|--|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Marked |
| Note: TGL 4 = NCL | | | |
| * Harderian Gland | | Hyperplasia | Moderate |
| * Kidney | | Infarct | Mild |
| * Liver | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| Note: Additional adenoma observed on slide 6. | | | |
| [Hepatocellular Adenoma TGLs = 1-21,3-22] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | Foreign Body | |
| | | Inflammation | Acute, Minimal |
| Note: Eosinophilic proteinaceous material mixed with inflammatory cells and foreign bodies (linear material). G.M.S. stain negative. | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

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Lab: SRI

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: 110520104350

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Hypertrophy

Mild

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLs = 2-7]

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 351

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * 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 |
| * Nose | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Skin | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Gallbladder

OBSERVATIONS

- | | | | |
|---|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | [Hepatocellular Adenoma TGLs = 4-6, 6-24] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21, 3-22, 5-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Lymph Node, Mesenteric | | Necrosis | Lymphoid, Minimal |
| Note: apoptosis | | | |
| * Mammary Gland | | Galactocele | Minimal |
| * Ovary | | | |
| Note: Hemorrhage present-physiologic change | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | Lymph Follic | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 351

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104351

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
Note: Also present on slide 4-1 [Hyperplasia TGLs = 7-25]			
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 352

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|----------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Marked |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Mild |
| * Esophagus | Muscularis | Degeneration | Minimal |
| Note: degeneration observed on slide 3-1 | | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: basophilic focus observed on slide 22 | | | |
| Note: TGL 6 = NCL | | | |
| | [Hepatocellular Adenoma | TGLs = 2-6, 3-22, 5-23] | |
| | [Hepatocellular Carcinoma | TGLs = 1-21] | |
| * Lung | | Hemorrhage | Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 352

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104352

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Lymph Follic	Hyperplasia	Minimal
* Thyroid Gland	Follicle	Atrophy	Mild
* Uterus		Hypertrophy	Moderate
		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 353

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|---------------------------|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hemorrhage | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Mild |
| | Kupffer Cell | Pigmentation | Mild |
| Note: Adenoma also observed on slide 6 | | | |
| [Hemorrhage TGLs = 1-21] | | | |
| [Hepatocellular Adenoma TGLs = 5-24] | | | |
| [Hepatocellular Carcinoma TGLs = 2-22, 3-22] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| Note: Skin (clitoral gland) contained numerous scattered Toluidine blue positive cells as part of the chronic inflammation. | | | |
| * Spleen | Lymph Follic | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 353

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104353

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
Note: Only 1 lesion observed on forestomach [Hyperplasia TGLs = 8-25]			
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLs = 6-7]			

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 354

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|--------------|--------------------------|
| Blood Vessel | * Lymph Node, Mandibular |
|--------------|--------------------------|

OBSERVATIONS

- | | | | |
|-------------------|--|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatocellular Adenoma TGLs = 3-22, 4-23, 5-24] | | |
| | [Hepatocellular Carcinoma TGLs = 1-21] | | |
| * Mammary Gland | | Galactocele | Mild |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Thyroid Gland | Follicular Cel | Hyperplasia | Minimal |
| | Follicle | Hypertrophy | Moderate |
| * Uterus | | Hyperplasia | Cystic, Moderate |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 355

TRT#: 8

SEX: Female

DAY ON TEST: 515

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Marked
	Capsule	Hyperplasia	Mild
		Hypertrophy	Diffuse, Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear Cl, Minimal
* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic, Minimal
	[Hepatocellular Adenoma TGLs = 2-22, 3-23, 4-24, 5-25]		
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactoceles	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
		Pigmentation	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 356

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Marked |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | | Nephropathy | Minimal |
| * Liver | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Adenoma TGLs = 2-22, 3-23, 1-21] | | |
| * Lung | | Hemorrhage | Mild |
| * Lym Node Mand | | | |
| Note: Very small section of lymph node present on slide 8 | | | |
| * Mammary Gland | | Galactocele | Mild |
| Mesentery | | | |
| Note: Slide 4-1 Small blood vessel in mesenteric fat contained hair shaft embolus | | | |
| * Skin | | Inflammation | Chronic Active, Mild |
| | Lip | Mast Cell Tumor Benign | |
| * Spleen | | Pigmentation | Minimal |
| * Stomach, Glandular | Glands | Ectasia | Focal, Minimal |
| * Thyroid Gland | Follicle | Degeneration | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 356

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104356

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Follicle	Hypertrophy Hyperplasia	Mild Cystic, Moderate
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PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 357

TRT#: 8

SEX: Female

DAY ON TEST: 432

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Hemorrhage | Moderate |
| | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Diffuse, Mild |
| Note: Hypertrophied cells were approximately 6 to 8 RBCs wide | | | |
| * Bone | Tail | Callus | Mild |
| | [Callus TGLs = 10-26] | | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Basophilic Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Marked |
| | Kupffer Cell | Pigmentation | Minimal |

Note: Two adenomas also observed on slide # 6

Note: Adenomas-circumscribed and compressed surrounding tissue. Very large cells--4 to 5 x larger than normal hepatocytes. Cells also had enlarged nuclei ~2 x

Note: Hematopoietic cell proliferation located in basophilic focus

Note: (Hypertrophy)Hepatocytes ~2-3 x larger than normal. Nuclei ~1-2 x larger than normal. Areas did not compress surrounding tissue.

Note: Basophilic focus-unusual, was circumscribed with distinct margins. Lesion included abundant hematopoietic cells with numerous megakaryocytes.

[Hepatocellular Adenoma TGLs = 4-22, 5-23, 6-24, 9-25]

[Hepatocellular Carcinoma TGLs = 1-21, 1-21-1]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 357

TRT#: 8

SEX: Female

DAY ON TEST: 432

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104357

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Note: Lesion included intravascular metastases [Hepatocellular Carcinoma TGLs = 7-2]			
* Ovary		Atrophy	Minimal
* Parathyroid GI			
Note: Extrathyroidal parathyroid present on slide # 3			
* Pituitary Gland	Rathkes Cleft	Cyst	Mild
* Spleen	Lymph Follic	Atrophy	Minimal
		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLs = 2-6]			
* Thymus		Atrophy	Marked
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 358

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Cortex
- * Bone
- * Kidney
- * Liver
- Capsule
- Renal Tubule
- Centrilobular, Hepatocyte
- [Hepatocellular Adenoma TGLs = 2-21, 3-21, 4-21, 5-22, 6-23, 8-24]
- [Hepatocellular Carcinoma TGLs = 1-25]
- [Necrosis TGLs = 7-6]
- * Lymph Node, Mandibular
- * Mammary Gland
- * Nose
- Note: Von Kossa stain positive
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Spleen
- Hyperplasia
- Fibro-Osseous Lesion
- Dilatation
- Infiltration Cellular
- Fatty Change
- Hepatocellular Adenoma
- Hepatocellular Carcinoma
- Hypertrophy
- Necrosis
- Pigmentation
- Galactoceles
- Mineralization
- Hyperplasia
- Infiltration Cellular
- Mineralization
- Hematopoietic Cell Proliferation
- Hyperplasia
- Pigmentation
- Mild
- Minimal
- Minimal
- Mononuclear CI, Minimal
- Minimal
- Multiple
- Moderate
- Focal, Moderate
- Moderate
- Minimal
- Mild
- Marked
- Mononuclear CI, Minimal
- Mild
- Mild
- Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 358

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104358

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLs = 9-7]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Clitoral Gland | * Eye | * Gallbladder | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Esophagus | Muscularis | Degeneration | Mild |
| * Harderian Gland | | Adenoma | |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Hemorrhage | Minimal |
| | Centrilobular, Hepatocyte | Hepatocellular Adenoma | |
| | | Hypertrophy | Marked |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Adenoma TGLs = 1-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| Oral Mucosa | | | |
| | Note: Oral mucosa, lip (slide 9) squamous epithelium, hyperplasia, focal, moderate | | |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 2-7] | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Spleen | | Pigmentation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Minimal |
| | [Hyperplasia TGLs = 5-22] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104359

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLs = 3-7]			

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 360

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104360

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach [Hyperplasia TGLs = 5-24]	Epithelium	Hyperplasia	Mild
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 361

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hemorrhage | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | [Hemorrhage TGLs = 4-6] | | |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-6, 5-6] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Minimal |
| * Thymus | | Hyperplasia | Lymphoid, Minimal |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Mild |
| | [Hyperplasia TGLs = 6-7] | | |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 361

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104361

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 362

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Marked
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Eosinophilic Focus	
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic, Minimal
	[Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23]		
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Necrosis	Lymphoid, Minimal
	Note: apoptosis		
* Mammary Gland		Galactoceles	Minimal
* Nose		Foreign Body	Mild
* Spleen		Pigmentation	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
* Uterus		Hyperplasia	Cystic, Mild
	[Hyperplasia TGLs = 4-7]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 362

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104362

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--|---|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Clear Cell Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Carcinoma TGLs = 1-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactoceles | Minimal |
| * Nose | | | |
| | | Note: Eosinophilic proteinaceous and basophilic material in nasal cavity-no inflammation. | |
| * Skin | | Mast Cell Tumor Benign | |
| | | Note: Lesion observed on skin adjacent to clitoral glands. Toluidine blue positive cells observed on special stain slide. | |
| * Thymus | | Cyst | Mild |
| * Thyroid Gland | Follicle | Hypertrophy | Mild |
| * Uterus | | Hyperplasia | Cystic, Moderate |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 364

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|------------------|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Cyst | |
| | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Esophagus | | Inflammation | Granulomatous, Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| | Interstitium | Inflammation | Chronic, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |

Note: Adenoma on slide 23-Some neoplastic cells contained eosinophilic, hyaline, irregular, oval, intracytoplasmic inclusion bodies.

Note: Additional adenoma on slide 6. Lesion included proliferation of plump spindle cells (oval cells) and focal necrosis.

[Hepatocellular Adenoma TGLs = 1-25, 2-21, 3-22, 4-23]

- | | | | |
|--------------------------|--|----------------------------------|---------|
| * Lung | | Thrombosis | Minimal |
| * Lymph Node, Mandibular | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Mild |
| * Mammary Gland | | Galactoceles | Mild |
| * Ovary | | Cyst | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 364

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104364

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Hair Follicle	Atrophy	Focal, Mild
	Hair Follicle	Inflammation	Chronic Active, Mild
Note: Chronic active inflammation observed in and around hair follicles. Also observed on slide 8-1.			
	[Atrophy TGLs = 5-24]		
	[Inflammation TGLs = 5-24]		
* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Marked
	[Hyperplasia TGLs = 6-7]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Blood Vessel | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Skin | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 4-24] | | |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infarct | Mild |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| | Note: Inflammation on slide 21 | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104365

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Hypertrophy

Mild

* Uterus

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 366

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Eye	* Gallbladder	* 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	* Ovary	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	Skeletal Muscle	* Skin	Spinal Cord
* Spleen	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Diffuse, Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Esophagus	Muscularis	Degeneration	Mild
Note: slide 3-1			
* Heart		Mineralization	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic, Minimal
[Hepatocellular Adenoma TGLs = 2-22, 3-23]			
[Hepatocellular Carcinoma TGLs = 1-21]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactocele	Minimal
* Nose		Inflammation	Acute, Minimal
Note: Nasal cavity contained hyaline eosinophilic and crystalline eosinophilic material intermixed with inflammatory cells. No special stains performed.			
* Pancreas		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Mild

Note: Foci of hyperplasia ranged from mild to marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 366

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104366

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 6-4-1, 6-24]

* Thymus

Atrophy

Marked

* Thyroid Gland

Follicle

Hypertrophy

Moderate

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLs = 5-7]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 367

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|---|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear Cl, Minimal |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Fatty Change | Minimal |
| | | Hemorrhage | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | [Hemorrhage TGLs = 4-21] | | |
| | [Hepatocellular Adenoma TGLs = 3-6, 5-6 6-22, 7-23] | | |
| | [Hepatocellular Carcinoma TGLs = 1-25, 2-6] | | |
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactoceles | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 8-24] | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear Cl, Minimal |
| * Thymus | | Hyperplasia | Lymphoid, Minimal |
| * Thyroid Gland | Follicle | Degeneration | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 367

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104367

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Follicle	Hypertrophy Hyperplasia	Mild Cystic, Marked
----------	----------	----------------------------	------------------------

Note: The cystic hyperplasia was more severe in one horn in comparison to the other.

[Hyperplasia TGLs = 9-7, 10-7]

PRIMARY CAUSE OF DEATH	- Liver	Hepatocellular Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Liver	Hepatocellular Adenoma
	- Liver	Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 368

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Marked |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Mild |
| | Kupffer Cell | Pigmentation | Mild |
| Note: Adenomas also observed on slide 6
[Hepatocellular Adenoma TGLs = 1-21, 3-22, 4-23] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| [Hyperplasia TGLs = 5-24] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 368

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104368

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 2-7]			

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 369

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * 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 | * Parathyroid Gland | * Pituitary Gland |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Fatty Change | Mild |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Hepatocellular Adenoma TGLs = 1-21, 3-22, 4-23, 5-24] | | |
| * Ovary | | | |
| | Note: NCL for TGL 6, hemorrhage present-physiologic change (back ground) and not individually tabulated. | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follicle | Hyperplasia | Minimal |
| | | Pigmentation | Minimal |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Marked |
| | [Hyperplasia TGLs = 2-7] | | |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 369

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104369

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 370

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Pituitary Gland | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|---|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hemorrhage | Minimal |
| | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| * Lung | | Granulosa Cell Tumor Malignant | Metastatic (Ovary) |
| Note: Metastatic granulosa cell tumor-intravascular embolus | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Minimal |
| * Nose | | Foreign Body | |
| Note: Foreign body-hair shaft | | | |
| Note: Eosinophilic proteinaceous material in nasal cavity-no inflammation | | | |
| * Ovary | | Cyst | Mild |
| | | Granulosa Cell Tumor Malignant | |
| [Cyst TGLs = 1-7] | | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 370

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104370

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Inflammation	Chronic, Minimal
Note: Slide 9.1			
* Spleen		Pigmentation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Moderate
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLs = 2-7]			

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma
 CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy
 - Lung Granulosa Cell Tumor Malignant Ovary
 - Ovary Granulosa Cell Tumor Malignant

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | | Hypertrophy | Moderate |
| | Kupffer Cell | Inflammation | Chronic, Minimal |
| | | Pigmentation | Minimal |
| Note: Carcinoma-slide 6
[Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Inflammation | Acute, Minimal |
| Note: Nose-lesion was G.M.S. stain negative for fungus | | | |
| * Spleen | Lymph Follic | Hyperplasia | Mild |
| | | Pigmentation | Mild |
| * Stomach, Forestomach | | Inflammation | Mild |
| | | Squamous Cell Papilloma | |
| [Inflammation TGLs = 5-24] | | | |
| [Squamous Cell Papilloma TGLs = 5-24] | | | |
| * Thymus | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104371

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Hypertrophy

Moderate

* Uterus

Hyperplasia

Cystic, Moderate

[Hyperplasia TGLs = 4-7]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 372

TRT#: 8

SEX: Female

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * 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 | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Parathyroid Gland

INSUFFICIENT TISSUE

- * Pituitary Gland
- * Thymus

OBSERVATIONS

- | | | | |
|------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | | Hematopoietic Cell Proliferation | Minimal |
| | Capsule | Hyperplasia | Mild |
| * Clitoral Gland | | Inflammation | Chronic Active, Mild |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Mild |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Adenoma TGLs = 1-26, 2-21, 3-22, 4-23] | | |
| | [Hepatocellular Carcinoma TGLs = 5-24] | | |
| | Lymph Node | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 6-8-1, 6-25] | | |
| * Mammary Gland | | Galactocele | Minimal |
| | | Inflammation | Chronic, Mild |
| * Nose | | Inflammation | Acute, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 372

TRT#: 8

SEX: Female

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104372

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Foreign body-small amount of basophilic linear material.

* Pancreas		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 373

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Mammary Gland | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | Interstitialium | Inflammation | Chronic, Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Minimal |
| [Hepatocellular Adenoma | TGLs = 1-6, 2-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Lymph Node, Mesenteric | | Pigmentation | Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| | | Pigmentation | Mild |
| * Thyroid Gland | Follicle | Hypertrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 374

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Skin | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Gallbladder

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Mild |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23, 4-24, 5-25] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactoceles | Minimal |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Minimal |
| * Stomach, Forestomach | | Squamous Cell Papilloma | |
| | [Squamous Cell Papilloma TGLs = 7-26] | | |
| * Stomach, Glandular | | Mineralization | Minimal |
| * Uterus | | Hyperplasia | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 374

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104374

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 6-7]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 375

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Clear Cell Focus	
	Centrilobular, Hepatocyte	Hepatocellular Carcinoma	
		Hypertrophy	Moderate
		Inflammation	Chronic, Minimal
	[Clear Cell Focus TGLs = 2-22]		
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Lung		Hemorrhage	Minimal
* Lymph Node, Mandibular		Pigmentation	Mild
* Mammary Gland		Galactocele	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Minimal
	[Hepatocellular Adenoma TGLs = 1-21, 2-22, 3-23, 4-24, 5-25]		
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactocele	Mild
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
		Metaplasia	Osseous, Minimal
		Mineralization	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Mild
	Kupffer Cell	Pigmentation	Minimal
Note: Additional carcinoma observed on slide 6 [Hepatocellular Adenoma TGLs = 1-21, 2-22, 4-6, 5-23, 6-24]			
* Lung		Hemorrhage	Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
		Pigmentation	Moderate
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLs = 3-7]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 378

TRT#: 8

SEX: Female

DAY ON TEST: 366

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------|---------------------|-------------------|----------------------|
| Blood Vessel | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Islets, Pancreatic |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |

MISSING

- * Thyroid Gland

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Gallbladder |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pituitary Gland | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | |
|---|----------------------|-------------------------|
| * Bone | Fibro-Osseous Lesion | Minimal |
| * Lung | Inflammation | Granulomatous, Moderate |
| Note: Macrophages and multinucleated giant cells present on pleura and individually in alveoli lumen. Cytoplasm had brown pigment or basophilic vacuolated material | | |
| Note: GMS stain negative | | |
| * Mammary Gland | Inflammation | Chronic Active, Mild |
| Note: Lesion observed in mammary gland observed on slide no. 8. Mammary gland also present on slide 8-1 | | |
| * Nose | | |
| Note: Autolytic changes present-could not distinguish epithelium, however basophilic debris and neutrophils were observed in lumen of one side of one section of nose | | |
| * Pituitary GI | | |
| Note: Pituitary gland present on slide # 3-1 | | |
| Tissue NOS | Abscess | Chronic, Marked |
| | Foreign Body | |
| Note: This lesion was a granuloma (not available on LDASII) | | |
| Note: Foreign bodies included hair follicles, amorphous eosinophilic material, | | |
| Note: Lesion with thick fibrous wall, multinucleated giant cells, macrophages. In center-neutrophils, necrotic debris, foreign material. Lung/esophagus/fat adhered. | | |
| [Abscess TGLs = 9-2] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 378

TRT#: 8

SEX: Female

DAY ON TEST: 366

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104378

ORGAN AND ACCOUNTABLE SITE STATUS

[Foreign Body TGLs = 9-2]

PRIMARY CAUSE OF DEATH

- Tissue NOS Abscess

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 379

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hepatocellular Carcinoma	
		Hypertrophy	Mild
	Kupffer Cell	Inflammation	Chronic, Minimal
	[Hepatocellular Adenoma TGLs = 2-22, 3-23, 4-24, 7-26]	Pigmentation	Minimal
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Lymph Node, Mandibular		Pigmentation	Moderate
* Mammary Gland		Galactoceles	Mild
* Nose			
Note: Eosinophilic proteinaceous material present in nasal cavity-no inflammation.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Moderate
* Trachea			
Note: Trachea present on slide 3-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 379

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104379

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Serosa

Cyst

Hyperplasia

Cystic, Moderate

Note: Multiple thin walled cysts on uterine surface with thin smooth muscle wall and lined by flattened endothelial -type cells (lymphatic vessels).

[Cyst TGLs = 5-25, 6-25]

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 380

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|---|---------------------------|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| | | Hypertrophy | Focal, Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Brain | | Infiltration Cellular | Mononuclear CI, Minimal |
| Note: perivascular lymphocytic infiltration in meninges | | | |
| * Kidney | Renal Tubule | Cyst | |
| | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Mild |
| | Pelvis | Inflammation | Chronic, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Mild |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Adenomas also observed on slide 6 | | | |
| [Hepatocellular Adenoma TGLs = 3-23, 7-25] | | | |
| [Hepatocellular Carcinoma TGLs = 1-21, 2-22] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Mild |
| * Nose | | | |

Note: Eosinophilic proteinaceous and crystalline material in nasal cavity-ni inflammation.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 380

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104380

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Pigmentation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
[Hyperplasia TGLs = 6-24]			
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Hypertrophy	Moderate
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 4-7]			

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 381

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hepatocellular Carcinoma | |
| | | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Mixed Cell Focus | |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Adenoma also observed on slide 6 | | | |
| [Hepatocellular Adenoma TGLs = 2-22, 3-23, 5-25, 6-26] | | | |
| [Hepatocellular Carcinoma TGLs = 4-24] | | | |
| [Mixed Cell Focus TGLs = 1-21] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Mild |
| * Nose | | Foreign Body | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Minimal |
| * Thymus | | Cyst | Mild |
| * Thyroid Gland | Follicle | Hypertrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 381

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104381

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Hyperplasia TGLs = 8-7]

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 515

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Diffuse, Minimal
* Bone		Fibro-Osseous Lesion	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear Cl, Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Mild
	[Hepatocellular Adenoma TGLs = 3-6, 2-22]		
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Lung		Hemorrhage	Minimal
* Lymph Node, Mandibular		Pigmentation	Moderate
* Mammary Gland		Galactocele	Mild
* Nose		Inflammation	Acute, Minimal
	Note: Eosinophilic proteinaceous and crystalline material in nasal cavity with inflammation-G.M.S.stain-negative.		
* Ovary		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 515

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104382

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Hypertrophy

Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 459

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|--------------------------|---|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Mild |
| * Bone Marrow | | Histiocytic Sarcoma | |
| * Intestine Small, Ileum | | Histiocytic Sarcoma | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 10-6, 11-6, 13-27] | | |
| * Lung | | Histiocytic Sarcoma | |
| Lymph Node | Popliteal | Histiocytic Sarcoma | |
| | Axillary | Histiocytic Sarcoma | |
| | Renal | Histiocytic Sarcoma | |
| | Iliac | Histiocytic Sarcoma | |
| | Inguinal | Histiocytic Sarcoma | |
| | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 2-8-1, 2-21, 12-26, 6-23, 8-24, 9-25] | | |
| * Lymph Node, Mandibular | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 1-8] | | |
| * Lymph Node, Mesenteric | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 7-5] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 459

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104383

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery

Note: Lesion observed on slide # 7

[Histiocytic Sarcoma TGLs = 5-22]

Histiocytic Sarcoma

* Nose

Note: GMS stain negative amorphous basophilic debris observed in nasal cavity

* Pancreas

Note: Lesion observed on slide# 5

Histiocytic Sarcoma

* Spleen

Hematopoietic Cell Proliferation

Mild

Histiocytic Sarcoma

[Histiocytic Sarcoma TGLs = 4-6]

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Spleen Histiocytic Sarcoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 384

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Brain | | Developmental Malformation | Mild |
| Note: "Lipoma" presence of mature adipose tissue at central midline. (Maronpot, R.R., et al. PATHOLOGY OF THE MOUSE, p 453-54. Cache River Press 1999) | | | |
| Note: "Lipoma" not an available diagnosis in LDASII for brain. | | | |
| * Kidney | Renal Tubule | Dilatation | Mild |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Fatty Change | Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | Kupffer Cell | Pigmentation | Minimal |
| Note: Additional adenoma observed on slide 6. | | | |
| [Eosinophilic Focus TGLs = 3-22] | | | |
| [Hepatocellular Adenoma TGLs = 2-21, 4-23] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Mammary Gland | | Galactocele | Mild |
| * Nose | | | |
| Note: Eosinophilic proteinaceous and crystalline material in nasal cavity-no inflammation. | | | |
| * Pancreas | | Inflammation | Chronic, Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 384

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104384

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Moderate
* Uterus		Hyperplasia	Cystic, Mild

[Hyperplasia TGLs = 1-7]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

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Lab: SRI

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Diffuse, Minimal
* Bone		Fibro-Osseous Lesion	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Mild
Note: Adenoma also observed on slide 6			
[Eosinophilic Focus TGLs = 7-25]			
[Hepatocellular Adenoma TGLs = 3-22, 4-23]			
[Hepatocellular Carcinoma TGLs = 2-21, 5-24]			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Mammary Gland		Galactocele	Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104385

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLs = 1-6]

* Stomach, Forestomach

Hepatocellular Carcinoma

Metastatic (Liver)

* Thyroid Gland

Follicle

Hypertrophy

Moderate

* Uterus

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

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First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Marked
* Bone		Fibro-Osseous Lesion	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Eosinophilic Focus	Multiple
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Marked
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Minimal
Note: TGL 4 = NCL			
	[Hepatocellular Adenoma	TGLs = 2-21, 3-6, 5-22, 6-23, 10-25]	
	[Hepatocellular Carcinoma	TGLs = 7-24]	
* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Pigmentation	Minimal
* Mammary Gland		Galactoceles	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Spleen	Lymph Follicle	Hyperplasia	Mild
		Pigmentation	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104386

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Follicle	Hypertrophy Hyperplasia	Mild Cystic, Moderate
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[Hyperplasia TGLs = 1-7]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 387

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Hepatocellular Adenoma	Multiple
	Centrilobular, Hepatocyte	Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLs = 2-22, 3-6, 4-23, 5-24, 6-25]	Hypertrophy	Moderate
	[Hepatocellular Carcinoma TGLs = 1-21]		
* Pancreas		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Moderate
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 388

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Pituitary Gland | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------------------|-------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Mild |
| | Centrilobular, Hepatocyte | Hepatocellular Adenoma | Multiple |
| | | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | [Hepatocellular Adenoma TGLs = 2-21, 4-22, 5-23, 6-24] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Inflammation | Acute, Mild |
| * Ovary | | Cyst | Mild |
| | [Cyst TGLs = 1-7] | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Inflammation | Chronic, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | Lymph Follic | Hyperplasia | Marked |
| * Thymus | | Atrophy | Minimal |
| * Thyroid Gland | Follicle | Hypertrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

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Lab: SRI

ANIMAL ID: 388

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104388

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Hyperplasia TGLs = 3-7]

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

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Lab: SRI

ANIMAL ID: 389

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--|------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | Centrilobular, Hepatocyte | Hepatocellular Adenoma | |
| | | Hypertrophy | Marked |
| | | Inflammation | Acute, Minimal |
| | [Hepatocellular Adenoma TGLs = 1-21] | | |
| * Lymph Node, Mandibular | | Pigmentation | Mild |
| * Nose | | Inflammation | Acute, Mild |
| | Note: Inflammatory cells mixed with hyaline eosinophilic material. Special stains not performed. | | |
| * Pancreas | | Inflammation | Chronic, Minimal |
| | Note: inflammation slide 4 | | |
| * Saliv Glands | | | |
| | Note: Mild mineralization of adipose tissue adjacent to salivary glands | | |
| * Spleen | | Pigmentation | Minimal |
| * Stomach, Forestomach | | Angiectasis | Focal, Moderate |
| | [Angiectasis TGLs = 3-4-1] | | |
| * Thyroid Gland | Follicle | Hypertrophy | Moderate |
| * Uterus | | Hyperplasia | Cystic, Moderate |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 389

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104389

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
		Hypertrophy	Focal, Minimal
* Bone		Fibro-Osseous Lesion	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Mild
Note: additional adenoma observed on slide 6			
[Hepatocellular Adenoma TGLs = 1-21, 2-22]			
[Hepatocellular Carcinoma TGLs = 3-23]			
* Lymph Node, Mandibular		Pigmentation	Mild
* Spleen		Pigmentation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104390

ORGAN AND ACCOUNTABLE SITE STATUS

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 391

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Mild
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hypertrophy	Moderate
		Inflammation	Chronic, Mild
		Necrosis	Focal, Mild
	Kupffer Cell	Pigmentation	Mild
[Hepatocellular Adenoma	TGLs = 1-21]		
* Lung		Hemorrhage	Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Degeneration	Minimal
	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 392

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
		Hypertrophy	Diffuse, Minimal
* Bone		Fibro-Osseous Lesion	Minimal
* Harderian Gland		Hyperplasia	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic, Minimal
	Kupffer Cell	Pigmentation	Mild
	[Hepatocellular Adenoma TGLs = 3-21, 5-6, 6-6]		
	[Hepatocellular Carcinoma TGLs = 4-22]		
* Lymph Node, Mandibular		Pigmentation	Moderate
* Mammary Gland		Galactocele	Mild
* Ovary		Cyst	Mild
* Pancreas		Necrosis	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Skin		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 392

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104392

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLs = 2-6]

[Hyperplasia TGLs = 2-6]

* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

Inflammation

Minimal

[Hyperplasia TGLs = 7-23]

* Thyroid Gland

Follicle

Hypertrophy

Moderate

* Uterus

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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
* Pituitary Gland	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Centrilobular, Hepatocyte	Hypertrophy	Minimal
		Necrosis	Focal, Moderate
	Kupffer Cell	Pigmentation	Mild
Note: Adenomas also observed on slides 6 and 23			
	[Hepatocellular Adenoma TGLs = 2-21, 4-23, 6-25]		
	[Hepatocellular Carcinoma TGLs = 3-22, 5-24]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLs = 7-26]		
* Nose		Inflammation	Acute, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
		Pigmentation	Mild
* Stomach, Forestomach		Erosion	Minimal
	Epithelium	Hyperplasia	Moderate
		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104393

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 8-4-1]

[Inflammation TGLs = 8-4-1]

* Thymus

Atrophy

Marked

* Thyroid Gland

Follicle

Hypertrophy

Mild

* Uterus

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 524

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Clitoral Gland
* Islets, Pancreatic	* Lung	* Mammary Gland	* Pancreas
* Skin	* Stomach, Forestomach	* Uterus	

MISSING

* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Thymus	* Thyroid Gland	* Trachea	

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Spleen	* Stomach, Glandular	* Urinary Bladder

INSUFFICIENT TISSUE

* Nose

OBSERVATIONS

* Liver	Hepatocellular Adenoma	Multiple
	Hepatocellular Carcinoma	

Note: TGL 1 = NCL

[Hepatocellular Adenoma TGLs = 3-23, 4-24, 5-25]

[Hepatocellular Carcinoma TGLs = 2-22]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	Multiple
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic, Minimal

Note: TGL 4-23 included marked focal necrosis

Note: Adenoma also observed on slide 6.

[Eosinophilic Focus TGLs = 5-24]

[Hepatocellular Adenoma TGLs = 3-22, 4-23]

[Hepatocellular Carcinoma TGLs = 1-21]

* Lymph Node, Mandibular		Pigmentation	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
* Mammary Gland		Galactocele	Mild
* Nose		Inflammation	Acute, Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen	Lymph Follic	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104395

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Pigmentation	Mild
		Erosion	Mild
		Hyperplasia	Mild
		Inflammation	Mild
* Thymus		Atrophy	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Moderate
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 2-7]			

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 396

TRT#: 8

SEX: Female

DAY ON TEST: 496

DOSE: 100 MG/KG

DISP: Natural Death

HISTO: 110520104396

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLs = 12-3]

[Lymphoma Malignant TGLs = 1-8-1, 1-21]

[Lymphoma Malignant TGLs = 7-23]

[Lymphoma Malignant TGLs = 8-24]

[Lymphoma Malignant TGLs = 4-28]

* Lymph Node, Mesenteric

Lymphoma Malignant

[Lymphoma Malignant TGLs = 4-28]

Mesentery

Lymphoma Malignant

Note: Adipose tissue surrounding adrenal gland (slide 10)-Lymphoma malignant

* Nose

Inflammation

Acute, Moderate

Note: Eosinophilic proteinaceous and crystalline material present in nasal cavity. G.M.S. stain negative.

* Ovary

Lymphoma Malignant

[Lymphoma Malignant TGLs = 14-7]

* Spleen

Lymphoma Malignant

[Lymphoma Malignant TGLs = 2-6]

* Stomach, Forestomach

Epithelium

Hyperplasia

Marked

Ulcer

Mild

[Hyperplasia TGLs = 16-26]

[Ulcer TGLs = 16-26]

* Stomach, Glandular

Erosion

Marked

[Erosion TGLs = 15-27]

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLs = 13-7]

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland |
| * Skin | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|------------------|---------------------------|--------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| | | Hypertrophy | Diffuse, Minimal |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Minimal |
| | Kupffer Cell | Pigmentation | Minimal |

Note: Additional carcinoma observed on slide 22

Note: Additional adenoma also observed on slide 6.1

[Hepatocellular Adenoma TGLs = 2-22, 5-25, 9-27]

[Hepatocellular Carcinoma TGLs = 1-21, 3-23]

- | | | | |
|--------------------------|--------------------------|--------------|-------------|
| * Lymph Node, Mandibular | | Pigmentation | Moderate |
| * Mammary Gland | | Galactocele | Mild |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4-24] | | |
| * Nose | | Inflammation | Acute, Mild |

Note: Material in nasal cavity-GMS stain negative.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 535

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104397

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Chronic, Minimal
* Salivary Glands		Infiltration Cellular	Mononuclear CI, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Minimal
* Stomach, Forestomach		Erosion	Mild
	Epithelium	Hyperplasia	Moderate
		Inflammation	Minimal
Note: Hyperplasia also observed on slide 4-1			
			[Erosion TGLs = 8-26]
			[Hyperplasia TGLs = 8-26]
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Hypertrophy	Moderate
* Uterus		Hyperplasia	Cystic, Marked
			[Hyperplasia TGLs = 6-7]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Mild |
| * Bone | | Fibro-Osseous Lesion | Moderate |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | | Hepatocellular Carcinoma | |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| | | Inflammation | Chronic, Minimal |
| | Kupffer Cell | Pigmentation | Mild |
| | [Hepatocellular Adenoma TGLs = 4-22, 5-23, 6-24, 7-25] | | |
| | [Hepatocellular Carcinoma TGLs = 2-21] | | |
| * Lung | | Metaplasia | Osseous, Minimal |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Mild |
| * Pancreas | | Inflammation | Chronic, Minimal |
| Note: slide 4 | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thymus | | Hyperplasia | Lymphoid, Minimal |
| * Thyroid Gland | Follicle | Degeneration | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104398

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Follicle	Hypertrophy Hyperplasia	Mild Cystic, Mild
----------	----------	----------------------------	----------------------

[Hyperplasia TGLs = 1-7]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Adenoma

- Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 399

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|--|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Hyperplasia | Moderate |
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Clitoral Gland | | Inflammation | Chronic Active, Minimal |
| * Kidney | Renal Tubule | Dilatation | Minimal |
| | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Liver | | Eosinophilic Focus | Multiple |
| | | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | Multiple |
| | Centrilobular, Hepatocyte | Hypertrophy | Moderate |
| Note: Adenoma also observed on slide 6
[Hepatocellular Adenoma TGLs = 2-22, 3-23, 6-25] | | | |
| * Lymph Node, Mandibular | | Pigmentation | Minimal |
| * Mammary Gland | | Galactocele | Minimal |
| * Pancreas | Duct | Cyst | |
| | [Cyst TGLs = 1-21] | | |
| * Salivary Glands | | Infiltration Cellular | Mononuclear CI, Minimal |
| * Skin | | Necrosis | Fatty, Focal, Mild |
| | [Necrosis TGLs = 4-24] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Minimal |
| * Thymus | | Hyperplasia | Lymphoid, Minimal |
| * Uterus | | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 399

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104399

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 5-7]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

Experiment Number: 20209 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
 CAS Number: 32534-81-9

Date Report Requested: 07/28/2016
 Time Report Requested: 15:47:52
 First Dose M/F: 02/25/08 / 02/25/08
 Lab: SRI

ANIMAL ID: 400

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney	Renal Tubule	Dilatation	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
	Centrilobular, Hepatocyte	Hypertrophy	Mild
		Inflammation	Chronic, Mild
	Kupffer Cell	Pigmentation	Minimal
	[Hepatocellular Adenoma TGLs = 2-21]		
* Lung		Metaplasia	Osseous, Minimal
* Lymph Node, Mandibular		Pigmentation	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Mild
* Thyroid Gland	Follicle	Degeneration	Mild
	Follicle	Hypertrophy	Mild
* Uterus		Hyperplasia	Cystic, Marked
	[Hyperplasia TGLs = 1-7]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]

CAS Number: 32534-81-9

Date Report Requested: 07/28/2016

Time Report Requested: 15:47:52

First Dose M/F: 02/25/08 / 02/25/08

Lab: SRI

ANIMAL ID: 400

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: 110520104400

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Hepatocyte Hypertrophy

*** END OF REPORT ***