

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

NTP Study Number: C20209

Lock Date: 08/31/2011

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25017 SSAC

Removal Date Range: ALL

Treatment Groups: Include 001 0 MG/KG
Include 008 50 MG/KG

Include 002 0 MG/KG

Include 007 50 MG/KG

Study Gender: Both

TDMSE Version: 3.0.2.3_002

PWG Approval Date: 08/06/2014

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Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
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Date Report Requested: 08/23/2016
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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Kidney	Hydronephrosis	Minimal
* Pancreas	Atrophy	Minimal
* Preputial Gland	Inflammation	Chronic, Minimal

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Date Report Requested: 08/23/2016
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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver	Fatty Change	Minimal
Note: rare microvesicular vacuolization, in addition to the macrovesicular vacuolization		
* Preputial Gland	Inflammation	Chronic, Minimal

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

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

CAS Number: 32534-81-9

Date Report Requested: 08/23/2016

Time Report Requested: 09:46:45

First Dose M/F: 08/26/08 / 08/26/08

Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Vacuolization Cytoplasmic	Mild
* Liver	Fatty Change	Minimal
* Prostate	Inflammation	Chronic, Minimal

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Test Type: CHRONIC
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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Lung	Inflammation	Chronic, Minimal
* Preputial Gland	Inflammation	Chronic, Minimal

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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Preputial Gland

Inflammation

Chronic, Minimal

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Test Type: CHRONIC
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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver

Note: macrovesicular and microvesicular vacuolization, microvesicular tends to be periportal and macrovesicular tends to be centrilobular

* Preputial Gland

Inflammation

Chronic, Minimal

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Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Inflammation	Chronic, Minimal
* Preputial Gland	Inflammation	Chronic, Minimal

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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Preputial Gland

Inflammation

Chronic, Minimal

Experiment Number: 20209 - 03
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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Preputial Gland	Inflammation	Chronic, Minimal
* Prostate	Inflammation	Chronic, Minimal

Note: lymphoplasmacytic infiltrate in interstitium

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Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 60

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lung	Inflammation	Chronic, Minimal
Note: subpleural mononuclear infiltrate		
* Preputial Gland	Inflammation	Chronic, Minimal

Experiment Number: 20209 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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Date Report Requested: 08/23/2016
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 First Dose M/F: 08/26/08 / 08/26/08
 Lab: SRI

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Hydronephrosis	Moderate
	[Hydronephrosis TGLs = 1-5]		
* Liver	Hepatocyte	Fatty Change	Minimal
	Note: microvesicular and macrovesicular vacuolization	Hypertrophy	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicle	Hypertrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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CAS Number: 32534-81-9

Date Report Requested: 08/23/2016
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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adren Cortex			
Note: one adrenal gland present on slide			
* Kidney		Hydronephrosis	Mild
[Hydronephrosis TGLs = 1-5]			
* Liver		Fatty Change	Mild
	Hepatocyte	Hypertrophy	Moderate
Note: microvesicular and macrovesicular vacuolization			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla Note: vacuolization of ganglion cells		Vacuolization Cytoplasmic	Minimal
* Liver Note: microvesicular and macrovesicular vacuolization	Hepatocyte	Hypertrophy	Moderate
Lymph Node Note: left inguinal lymph node - dark brown granular pigment [Pigmentation TGLs = 1-21]		Pigmentation	Minimal

Experiment Number: 20209 - 03
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Date Report Requested: 08/23/2016
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First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Casts Protein	Minimal
* Liver		Fatty Change	Mild
	Hepatocyte	Hypertrophy	Moderate
	Note: microvesicular and macrovesicular vacuolization		
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicle	Hypertrophy	Mild

Experiment Number: 20209 - 03
Test Type: CHRONIC
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Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|---|---------------------------|------------------|
| * Kidney | Renal Tubule | Vacuolization Cytoplasmic | Minimal |
| | [Vacuolization Cytoplasmic TGLs = 3-22] | | |
| * Liver | Hepatocyte | Fatty Change | Mild |
| | | Hypertrophy | Moderate |
| | Note: microvesicular and macrovesicular vacuolization, periportal to midzonal vacuolization | | |
| * Lung | | Inflammation | Chronic, Minimal |
| Mesentery | | Fibrosis | Focal, Mild |
| | [Fibrosis TGLs = 1-21] | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Fatty Change	Minimal
	Hepatocyte	Hypertrophy	Marked
* Lung		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Kidney		Hydronephrosis	Moderate
	[Hydronephrosis TGLs = 1-5]		
* Liver		Fatty Change	Mild
	Hepatocyte	Hypertrophy	Moderate
	Note: microvesicular and macrovesicular vacuolization		
* Preputial Gland		Inflammation	Chronic, Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 208

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver	Hepatocyte	Hypertrophy	Moderate
Note: individual cell necrosis, 1 hepatocyte			
* Prostate		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 215

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Fatty Change	Minimal
	Hepatocyte	Hypertrophy	Moderate
* Preputial Gland		Inflammation	Chronic, Minimal

Experiment Number: 20209 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
 Time Report Requested: 09:46:45
 First Dose M/F: 08/26/08 / 08/26/08
 Lab: SRI

ANIMAL ID: 217

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105217

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Liver		Fatty Change	Minimal
	Hepatocyte	Hypertrophy	Moderate
* Lung		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Thyroid Gland	Follicle	Hypertrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 227

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	Skeletal Muscle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

INSUFFICIENT TISSUE

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Clitoral Gland	Inflammation	Chronic, Minimal
* Pancreas	Atrophy	Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 228

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland	Inflammation	Chronic, Minimal
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLs = 1-8]		

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 230

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland	Inflammation	Chronic, Minimal
Lymph Node	Pigmentation	Minimal
[Pigmentation TGLs = 1-8-1]		

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 238

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 239

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland	Inflammation	Chronic, Minimal
* Liver		

Note: 1 hepatocyte with microvesicular vacuolization

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
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Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 249

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 251

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland	Inflammation	Chronic, Minimal
* Liver		
Note: 1 hepatocyte with microvesicular vacuolization		
* Pancreas		
Note: focal area of chronic inflammation in attached mesentery		

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 262

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Clitoral Gland	Inflammation	Chronic, Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 271

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Urinary Bladder

OBSERVATIONS

* Urin Bladder

Note: minimal mucosa present

* Uterus

Note: uterine lumen dilatation and a few neutrophils within the endometrium correspond to a physiologic change

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 381

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Liver	Hepatocyte	Hypertrophy	Moderate
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Liver	Hepatocyte	Hypertrophy	Moderate
Note: scattered macrovesicular and rare microvesicular vacuolization, background periportal vacuolization also			
* Lung		Inflammation	Chronic, Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Tissue NOS

OBSERVATIONS

* Liver	Hepatocyte	Hypertrophy	Moderate
Lymph Node	Popliteal	Pigmentation	Minimal
Note: dark brown granular material present within macrophages and extracellular			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 411

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Liver	Hepatocyte	Hypertrophy	Moderate
* Lung		Inflammation	Chronic, Minimal

Note: subpleural lymphocytic focus

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 413

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Liver		Fatty Change	Minimal
	Hepatocyte	Hypertrophy	Moderate
	Note: scattered macrovesicular and rare microvesicular vacuolization, background periportal vacuoles also present		
* Lung		Metaplasia	Osseous, Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 414

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Fatty Change	Minimal
	Hepatocyte	Hypertrophy	Moderate

Note: scattered macrovesicular and rare microvesicular vacuolization, background periportal vacuolization also

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 422

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 11052O1O5422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Liver	Hepatocyte	Hypertrophy	Moderate
Lymph Node	Popliteal	Pigmentation	Minimal
Note: dark brown granular pigment - intracellular and extracellular			
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 424

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Minimal
* Liver		Fatty Change	Minimal
	Hepatocyte	Hypertrophy	Moderate
	Note: scattered macrovesicular and rare microvesicular vacuolization, background periportal vacuoles also present		
* Pancreas			
	Note: chronic inflammation (mononuclear cells, neutrophils and hypertrophic mesothelial cells) in attached mesentery		
* Thyroid Gland	Follicle	Hypertrophy	Minimal

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 426

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Liver	Hepatocyte	Hypertrophy	Moderate

Note: Hepatocyte hypertrophy most prominent in centrilobular and midzonal regions of hepatic lobule, with relative sparing of periportal hepatocytes

Note: Hypertrophic hepatocytes are enlarged with an increased amount of pale eosinophilic granular (ground glass) cytoplasm and enlarged nuclei

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

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

Date Report Requested: 08/23/2016
Time Report Requested: 09:46:45
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: 50 MG/KG

DISP: Scheduled Sacrifice

HISTO: 110520105437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Liver	Hepatocyte	Hypertrophy	Moderate
Note: individual cell necrosis - 1 pyknotic hyereosinophilic swollen hepatocytel, multiple discrete to indiscrete clear vacuoles in cytoplsm of periportal hepatocytes			
* Thyroid Gland	Follicle	Hypertrophy	Mild
Note: increased number of small follicles lined by cuboidal to low columnar epithelium, colloid not discernible in many follicles			

*** END OF REPORT ***