

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:18:12
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

F_Core_RE

NTP Study Number:	C20209		
Lock Date:	08/31/2011		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
	25018 DACC		
Removal Date Range:	ALL		
Treatment Groups:	Include ALL		
Study Gender:	Both		
TDMSE Version:	3.0.2.1_001		
PWG Approval Date:	NONE		

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

WISTAR HAN RATS MALE 0 MG/KG	DAY ON TEST																								ANIMAL ID	males (cont...)			
	0730	0730	0730	0730	0760	0770	0770	0753	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0762	0772	0772	0772	0766	0777			0777	0751	0751
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	
	3	5	6	7	8	9	0	1	2	3	5	6	7	9	0	1	2	4	5	6	7	8	0	1	1	2	2		

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum Fibroma	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver Hepatocellular Adenoma Leukemia	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mesentery Lipoma		+				+								+	+			+								+			
Oral Mucosa																													
Pancreas Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

WISTAR HAN RATS MALE 0 MG/KG	DAY ON TEST																									ANIMAL ID	males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7	7	7	7	6	7	7	5	7	7	7	7	7	7	7	7	7	7	6	7	7	6	7	7	5	0	
	3	3	3	3	7	3	3	5	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	0	
	0	0	0	0	6	0	2	3	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	0	
	3	5	6	7	8	9	0	1	2	3	5	6	7	9	0	1	2	4	5	6	7	8	0	1	0		

Parotid Gland, Adenoma

Stomach, Forestomach

Fibrosarcoma

Squamous Cell Papilloma

Stomach, Glandular

Fibrosarcoma

Tooth

CARDIOVASCULAR SYSTEM

Heart

ENDOCRINE SYSTEM

Adrenal Cortex

Carcinoma

Adrenal Medulla

Pheochromocytoma Malignant

Islets, Pancreatic

Adenoma

Carcinoma

Parathyroid Gland

Adenoma

Adenoma, Multiple

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

WISTAR HAN RATS MALE 0 MG/KG	DAY ON TEST																								males (cont...)	
	0730	0730	0730	0730	0760	0770	0770	0753	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773		
ANIMAL ID	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
	3	5	6	7	8	9	0	1	2	3	5	6	7	9	0	1	2	2	4	5	6	7	8	0	1	2

Pituitary Gland Glioma Malignant, Metastatic, Brain Pars Distalis, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	X				X	X	X	X		X	X				X			X					X	X	X	
Thyroid Gland C-cell, Adenoma Follicular Cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	X		X				X				X						X					X				

GENERAL BODY SYSTEM

Tissue NOS	+																										
------------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes Interstitial Cell, Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
							X															X					

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node																											

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

WISTAR HAN RATS MALE 0 MG/KG	DAY ON TEST																				ANIMAL ID	males (cont...)			
	0730	0730	0730	0730	0760	0770	0770	0750	0770	0770	0770	0770	0770	0770	0770	0770	0770	0770	0760	0770			0770	0750	0770
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric Hemangioma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemangiosarcoma													X		X		X					X		X	
Spleen Hemangiosarcoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
INTEGUMENTARY SYSTEM																									
Mammary Gland	M	+	M	+	+	+	+	+	+	+	+	M	+	M	M	M	+	+	+	M	M	+	M	+	+
Skin Basal Cell Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibroma																									X
Keratoacanthoma																									X
MUSCULOSKELETAL SYSTEM																									
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle Hemangiosarcoma																									
NERVOUS SYSTEM																									
Brain Glioma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

WISTAR HAN RATS MALE 0 MG/KG	DAY ON TEST																								ANIMAL ID	males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7	7	7	7	6	7	7	5	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	5	0	
	3	3	3	3	7	3	3	5	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	0	
	0	0	0	0	6	0	2	3	2	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	0	
	3	5	6	7	8	9	0	1	2	3	5	6	7	9	0	1	2	4	5	6	7	8	0	1	0	

Granular Cell Tumor Benign

X

Peripheral Nerve

+

Spinal Cord

+

RESPIRATORY SYSTEM

Lung

+ +

Nose

+ +

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ +

Harderian Gland

+ +

URINARY SYSTEM

Kidney

+ +

Ureter

+

Urinary Bladder

+ +

SYSTEMIC LESIONS

Multiple Organ

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------------|
| WISTAR HAN RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 5 | |
| 0 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | |
| | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | |

Leukemia

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| WISTAR HAN RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 0 | 5 | 0 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 7 | 2 | 2 | 2 | 0 | 0 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 1 |
| 0 MG/KG | | 1 | 1 | 1 | 1 | 0 | 0 | 9 | 4 | 9 | 9 | 3 | 8 | 4 | 1 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | * TOTALS |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Cecum | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 46 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Duodenum
Fibroma | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 46
1 |
| Intestine Small, Ileum | + | + | + | + | + | + | A | A | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Jejunum | + | + | + | + | + | + | A | A | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | 45 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hepatocellular Adenoma | | X | | | | | | | | | | | | | | | X | | | | | | | | 3 |
| Leukemia | | | | | | | | | | | | X | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | + | | + | | + | | | | | + | | | | | | | + | + | 12 |
| Lipoma | | | | | | | | | X | | | | | | | | | | | | | | | | 1 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 46 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | A | A | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 46 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
7
3
0 | 0
7
3
9 | 0
5
7
4 | 0
7
2
9 | 0
7
2
9 | 0
0
2
3 | 0
5
0
8 | 0
0
4
1 | 0
7
3
7 | 0
5
3
1 | 0
7
3
0 | 0
7
3
0 | 0
6
3
0 | 0
7
3
1 | | 0
7
3
1 | 0
6
1
9 | 0
7
3
1 |
| ANIMAL ID | 0
0
0
3
3 | 0
0
0
3
4 | 0
0
0
3
5 | 0
0
0
3
6 | 0
0
0
3
8 | 0
0
0
3
9 | 0
0
0
4
0 | 0
0
0
4
1 | 0
0
0
4
2 | 0
0
0
4
3 | 0
0
0
4
4 | 0
0
0
4
5 | 0
0
0
4
6 | 0
0
0
4
7 | 0
0
0
4
9 | 0
0
0
5
0 | 0
0
0
5
1 | 0
0
0
5
2 | 0
0
0
5
3 | 0
0
0
5
5 | 0
0
0
5
6 | 0
0
0
5
7 | 0
0
0
5
8 | 0
0
0
5
9 |
| Parotid Gland, Adenoma | X | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Stomach, Forestomach
Fibrosarcoma
Squamous Cell Papilloma | + | | | | | | | | | | | | | | | | | | | | 49
1
1 | | | |
| Stomach, Glandular
Fibrosarcoma | + + + + + + A + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | 48
1 | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | | | | | | | | | | | | | | | | | | | | 49 | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Carcinoma | + | | | | | | | | | | | | | | | | | | | | 49
1 | | | |
| Adrenal Medulla
Pheochromocytoma Malignant | + | | | | | | | | | | | | | | | | | | | | 49
1 | | | |
| Islets, Pancreatic
Adenoma
Carcinoma | + | | | | | | | | | | | | | | | | | | | | 49
4
2 | | | |
| Parathyroid Gland
Adenoma
Adenoma, Multiple | + + + + + + + + + + + + M + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | 47
1
1 | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|--|
| | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
7
3
0 | 0
7
3
9 | 0
5
7
4 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
0
0
3 | 0
5
0
8 | 0
0
4
4 | 0
7
3
1 | 0
5
3
7 | 0
7
3
1 | 0
7
3
0 | 0
6
3
0 | 0
7
3
1 | 0
7
3
1 | | 0
6
1
9 | 0
7
3
1 | | |
| ANIMAL ID | 0
0
0
3
3 | 0
0
0
3
4 | 0
0
0
3
5 | 0
0
0
3
6 | 0
0
0
3
8 | 0
0
0
3
9 | 0
0
0
4
0 | 0
0
0
4
1 | 0
0
0
4
2 | 0
0
0
4
3 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
5 | 0
0
0
4
6 | 0
0
0
4
7 | 0
0
0
4
9 | 0
0
0
5
0 | 0
0
0
5
1 | 0
0
0
5
2 | 0
0
0
5
3 | 0
0
0
5
5 | 0
0
0
5
6 | 0
0
0
5
7 | 0
0
0
5
8 | 0
0
0
5
9 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Glioma Malignant, Metastatic, Brain | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Adenoma | | | | | | X | | X | | | | | X | | X | X | | | X | | | X | | | | 19 | |
| Thyroid Gland | + | + | + | + | + | + | A | A | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | 45 | |
| C-cell, Adenoma | X | | | | | | | | | | X | | | | | X | | | | | X | X | | X | | 11 | |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | + | | | | | | + | | | | | | | | | | | 3 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Lymph Node | | | | | | | | | + | | | | | | + | | | | | | | | | | | 2 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | |
| ANIMAL ID | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymph Node, Mesenteric Hemangioma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spleen Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | 7 |
| Spleen Hemangiosarcoma | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 47 |
| Thymus | + | + | + | + | + | + | A | A | + | + | + | + | + | M | + | A | + | + | + | + | + | + | 45 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | M | + | + | I | + | + | M | + | M | + | + | + | I | M | + | + | M | + | + | 33 |
| Skin Basal Cell Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | 2 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Skeletal Muscle Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Brain Glioma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | |
| ANIMAL ID | 0
0
0
3
3 | 0
0
0
3
4 | 0
0
0
3
5 | 0
0
0
3
6 | 0
0
0
3
8 | 0
0
0
3
9 | 0
0
0
3
0 | 0
0
0
4
1 | 0
0
0
4
2 | 0
0
0
4
3 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
4 | 0
0
0
4
4 |
| Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | + | 2 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | + | 2 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 46 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
 Time Report Requested: 10:18:12
 First Dose M/F: 08/26/08 / 08/26/08
 Lab: SRI

| WISTAR HAN RATS MALE | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 MG/KG | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 0 | 5 | 0 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 7 | 2 | 2 | 2 | 0 | 0 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | |
| ANIMAL ID | | 1 | 1 | 1 | 1 | 0 | 0 | 9 | 4 | 9 | 9 | 9 | 3 | 8 | 4 | 1 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Leukemia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|----------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| 3 MG/KG | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | | 7 |
| | | 3 | 8 | 3 | 4 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 6 | |
| | | 0 | 2 | 0 | 5 | 1 | 1 | 8 | 0 | 0 | 2 | 2 | 7 | 1 | 1 | 1 | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 5 | 1 | 5 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | A | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | A | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | A | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | + | | | | | | | | | | | | | | | | | | | | | | | + |
| Pancreas | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|
| WISTAR HAN RATS MALE | DAY ON TEST | 0730 | 0682 | 0730 | 0674 | 0773 | 0665 | 0778 | 0770 | 0772 | 0772 | 0577 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0575 | 0774 | 0746 | males
(cont...) |
| | 3 MG/KG | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | |
| | ANIMAL ID | 6611 | 6622 | 6633 | 6644 | 6655 | 6666 | 6677 | 6688 | 6699 | 6600 | 6611 | 6622 | 6633 | 6644 | 6655 | 6666 | 6677 | 6688 | 6699 | 6600 | 6611 | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tongue | + | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | | | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Pheochromocytoma Complex | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic
Adenoma | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + |
| Pituitary Gland
Craniopharyngioma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ganglioneuroma | X | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | X | X | X | X | X | X | | | | | | | | | | | | | | | | X |
| Pars Intermedia, Adenoma | | X | X | X | X | X | | | | | | | | | | | | | | | | X | |
| Thyroid Gland
C-cell, Adenoma | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Follicular Cell, Adenoma | | | X | X | X | X | X | X | X | X | A | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
 Time Report Requested: 10:18:12
 First Dose M/F: 08/26/08 / 08/26/08
 Lab: SRI

| WISTAR HAN RATS MALE
3 MG/KG | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|---------------------------------|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|--------------------|---|---|
| | | 0
7
3
0 | 0
6
8
2 | 0
7
3
0 | 0
6
4
5 | 0
7
3
1 | 0
7
3
1 | 0
6
5
8 | 0
7
3
0 | 0
7
3
0 | 0
7
3
2 | 0
7
3
2 | 0
5
0
7 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
7
3
0 | 0
7
3
3 | 0
7
3
3 | 0
7
3
3 | 0
5
8
5 | 0
7
3
1 | 0
4
6
5 | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | | 8 | 8 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | 6 | 7 |

Iliac, Histiocytic Sarcoma
 Mediastinal, Lymphoma Malignant
 Pancreatic, Lymphoma Malignant
 Renal, Histiocytic Sarcoma
 Renal, Lymphoma Malignant

Lymph Node, Mandibular
 Lymphoma Malignant

Lymph Node, Mesenteric
 Hemangiosarcoma
 Histiocytic Sarcoma
 Lymphoma Malignant

Spleen
 Lymphoma Malignant

Thymus

INTEGUMENTARY SYSTEM

Mammary Gland
 Fibroma

Skin
 Basal Cell Adenoma
 Fibroma
 Fibrosarcoma
 Hamartoma
 Hemangiosarcoma
 Histiocytic Sarcoma

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + |
| | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | I | M | M | + | + | + | + | M | M | + |
| | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| WISTAR HAN RATS MALE

3 MG/KG | DAY ON TEST | 0731 | 0485 | 0730 | 0770 | 0752 | 0371 | 0772 | 0579 | 0779 | 0779 | 0772 | 0779 | 0779 | 0770 | 0773 | 0773 | 0060 | 0776 | 0773 | 0588 | 0664 | 0773 | * TOTALS |
| | ANIMAL ID | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | 00101 | 00102 | 00103 | 00104 | 00105 | 00106 | 00107 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | A | + | 43 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + | 45 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | A | + | 46 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | 45 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | A | + | + | A | + | + | 43 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | M | + | + | A | + | + | A | + | + | 44 |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | 1 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | X | | | | | | 2 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | X | | | | | | | | X | | 2 | |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | 1 | |
| Mesentery | | + | | + | | | | | | | | | | | | | | | + | + | | | | 6 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | 47 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------------------------|--|
| | 0731 | 0748 | 0773 | 0773 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | | | |
| ANIMAL ID | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | 00101 | 00102 | 00103 | 00104 | 00105 | 00106 | 00107 | 00108 | 00109 | 00110 | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + | 46 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Adrenal Medulla
Pheochromocytoma Complex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 48
1 | |
| Islets, Pancreatic
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
2 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Pituitary Gland
Craniopharyngioma
Ganglioneuroma
Pars Distalis, Adenoma
Pars Intermedia, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 49
1
1
12
2 | |
| Thyroid Gland
C-cell, Adenoma
Follicular Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | 45
12
3 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
| | 0731 | 0738 | 0743 | 0747 | 0752 | 0757 | 0762 | 0767 | 0772 | 0777 | 0782 | 0787 | 0792 | 0797 | 0802 | 0807 | 0812 | 0817 | 0822 | 0827 | 0832 | 0837 | 0842 | 0847 | 0852 | | |
| ANIMAL ID | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 | 0101 | 0102 | 0103 | 0104 | 0105 | 0106 | 0107 | 0108 | 0109 | 0110 | | |
| Iliac, Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | X | | | | | | 2 | | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | | |
| Renal, Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | | |
| Renal, Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | | |
| Lymph Node, Mandibular Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| | | | X | | | | | | | | X | | | | | | | | | | | | | | 2 | | |
| Lymph Node, Mesenteric Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Histiocytic Sarcoma | | | X | | | | | | | | | | | | | | | | | | | | X | | 2 | | |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | | |
| Spleen Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | 46 | | |
| | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | | |
| Thymus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Fibroma | + | M | + | + | + | + | + | M | + | + | + | M | + | + | + | M | + | + | M | + | + | M | + | + | 38 | | |
| | | | | | | | X | | | | | | | | | | | | | | | | | | 1 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | | |
| Fibroma | | | | | | | | X | | | | X | | | | | | | | | | | | | 3 | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hamartoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hemangiosarcoma | | | | | X | | | | | | | | | | | | | | | | | | | | 1 | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | X | | | | | | | | | | | 1 | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | |
|-----------------------------|-----------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|---|---|
| WISTAR HAN RATS MALE | 15 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | | |
| | | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 4 | 7 | | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 9 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 5 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 |
| | | 5 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 9 | 0 | 3 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Papilloma | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | + | + | + | + | | + | | | | | | + | + | | + | + | | | | | | | | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parotid Gland, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Parotid Gland, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---|--|
| | 0
5
9
5 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
5
9
2 | 0
7
3
0 | 0
7
3
0 | 0
6
0
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
1 | 0
7
3
1 | 0
6
3
9 | 0
7
3
0 | 0
5
8
3 | 0
4
3
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
9 | | | |
| ANIMAL ID | 0
0
1
1
1
1 | 0
0
1
1
1
2 | 0
0
1
1
1
3 | 0
0
1
1
1
4 | 0
0
1
1
1
5 | 0
0
1
1
1
6 | 0
0
1
1
1
7 | 0
0
1
1
1
8 | 0
0
1
1
1
9 | 0
0
1
1
2
0 | 0
0
1
1
2
1 | 0
0
1
1
2
2 | 0
0
1
1
2
2 | 0
0
1
1
2
3 | 0
0
1
1
2
4 | 0
0
1
1
2
5 | 0
0
1
1
2
6 | 0
0
1
1
2
7 | 0
0
1
1
2
8 | 0
0
1
1
2
9 | 0
0
1
1
3
0 | 0
0
1
1
3
1 | 0
0
1
1
3
2 | 0
0
1
1
3
3 | 0
0
1
1
3
4 | 0
0
1
1
3
5 | | |
| Parotid Gland, Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach
Lymphoma Malignant
Squamous Cell Papilloma, Multiple | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adrenal Medulla
Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Islets, Pancreatic
Adenoma
Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland
Glioma Malignant, Metastatic, Brain
Pars Distalis, Adenoma
Pars Distalis, Adenoma, Multiple | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| WISTAR HAN RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
| | 0
5
9
5 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
5
9
2 | 0
7
3
0 | 0
7
3
0 | 0
6
0
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
1 | 0
7
3
1 | 0
6
3
9 | 0
7
3
0 | 0
5
8
3 | 0
4
3
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
9 | |
| 15 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
| | 0
0
1
1
1
1 | 0
0
1
1
1
2 | 0
0
1
1
1
3 | 0
0
1
1
1
4 | 0
0
1
1
1
5 | 0
0
1
1
1
6 | 0
0
1
1
1
7 | 0
0
1
1
1
8 | 0
0
1
1
1
9 | 0
0
1
1
2
0 | 0
0
1
1
2
1 | 0
0
1
1
2
2 | 0
0
1
1
2
2 | 0
0
1
1
2
2 | 0
0
1
1
2
2 | 0
0
1
1
2
2 | 0
0
1
1
2
2 | 0
0
1
1
2
2 | 0
0
1
1
2
2 | 0
0
1
1
3
3 | 0
0
1
1
3
3 | 0
0
1
1
3
3 | 0
0
1
1
3
3 | 0
0
1
1
3
3 | 0
0
1
1
3
4 | |

Pinna, Squamous Cell Papilloma

X

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle

+ + +

NERVOUS SYSTEM

Brain

+ +

Glioma Malignant

X

Meninges, Granular Cell Tumor Benign

Peripheral Nerve

+ +

Spinal Cord

+ +

RESPIRATORY SYSTEM

Lung

+ +

Osteosarcoma, Metastatic, Lung

X

Thymoma Malignant, Metastatic, Thymus

X

Nose

+ +

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | |
| WISTAR HAN RATS MALE | | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | | |
| | | 2 | 2 | 2 | 2 | 2 | 3 | 5 | 3 | 8 | 2 | 2 | 3 | 3 | 3 | 3 | 9 | 3 | 2 | 2 | 2 | 3 | | 4 |
| 15 MG/KG | | 9 | 9 | 9 | 9 | 9 | 2 | 3 | 6 | 9 | 9 | 9 | 0 | 0 | 0 | 1 | 9 | 1 | 9 | 9 | 9 | 1 | 6 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma | | | | | X | | | | | | | X | | | | X | | | | | | X | | 4 |
| Mesentery | | | | + | | + | | | | | | | | | | | | + | | | | | | 13 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | | X | | | | | | | | | | | | | | X | | | | | 2 |
| Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parotid Gland, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Parotid Gland, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|----|
| | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | |
| WISTAR HAN RATS MALE | 2 | 2 | 2 | 2 | 2 | 3 | 5 | 3 | 8 | 2 | 2 | 3 | 3 | 3 | 3 | 9 | 3 | 2 | 2 | 2 | 3 | 7 | 1 | 3 | 3 |
| | 9 | 9 | 9 | 9 | 9 | 2 | 3 | 6 | 9 | 9 | 9 | 0 | 0 | 0 | 1 | 9 | 1 | 9 | 9 | 9 | 1 | 6 | 7 | 1 | 1 |
| 15 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Parotid Gland, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Squamous Cell Papilloma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | X | | | | | | | | | | | | | | | | | | | X | | 2 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Glioma Malignant, Metastatic, Brain | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Adenoma | | | | X | X | | | X | | | | X | X | | | X | X | | | X | | X | X | | 21 |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|----------------------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|----|----|
| | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | 0729 | | | | |
| ANIMAL ID | 001367 | 001368 | 001369 | 001370 | 001371 | 001372 | 001373 | 001374 | 001375 | 001376 | 001377 | 001378 | 001379 | 001380 | 001381 | 001382 | 001383 | 001384 | 001385 | 001386 | 001387 | 001388 | 001389 | 001390 | | |
| | Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 48 |
| C-cell, Adenoma | | X | | | | | | | | | | | | | | | X | X | X | | X | | | | 10 | |
| C-cell, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | | | X | | | X | | | | 2 | |
| Follicular Cell, Carcinoma | | X | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Interstitial Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | | 5 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|----------------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 05
32 | 04
36 | 02
39 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 05
32 | 07
29 | 07
29 | 07
29 | 07
29 | 04
36 | 06
37 | | 07
31 | 07
31 |
| ANIMAL ID | 00136 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 | 00051 | 00052 | 00053 | 00054 | 00055 | 00056 | 00057 | 00058 | 00059 | 00060 | 00061 | 00062 |

Inguinal, Lymphoma Malignant

1

Lymph Node, Mandibular
Lymphoma Malignant

+ +

50
1

Lymph Node, Mesenteric
Hemangioma
Hemangiosarcoma
Lymphoma Malignant

+ X + X + + +

50
2
3
1

Spleen
Histiocytic Sarcoma

+ X + + + +

50
1

Thymus
Lymphoma Malignant
Thymoma Benign
Thymoma Malignant

+ I + +

49
1
1
1

INTEGUMENTARY SYSTEM

Mammary Gland
Fibroadenoma

M M + + + + M M + + + + + + + + + + + + + + M

39
3

Skin
Basal Cell Adenoma
Fibroma
Keratoacanthoma
Lipoma
Lymphoma Malignant
Schwannoma Malignant

+ +

50
1
1
1
1
1
1

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE

15 MG/KG | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----|--|
| | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 2 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | | | |
| | | 2 | 2 | 2 | 2 | 2 | 3 | 5 | 3 | 8 | 2 | 2 | 3 | 3 | 3 | 3 | 9 | 3 | 2 | 2 | 3 | 7 | 1 | 3 | 3 | |
| | | 9 | 9 | 9 | 9 | 9 | 2 | 3 | 6 | 9 | 9 | 9 | 0 | 0 | 1 | 9 | 1 | 9 | 9 | 9 | 1 | 6 | 7 | 1 | 3 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lacrimal Gland | | | | | | | + | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | X | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
 Time Report Requested: 10:18:12
 First Dose M/F: 08/26/08 / 08/26/08
 Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | | | | | | | | | |
|----------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WISTAR HAN RATS MALE | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | | | | | | | | | | |
| | | 8 | 3 | 3 | 3 | 3 | 0 | 6 | 5 | 0 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 9 | 9 | 5 | | 4 | 7 | 7 | 6 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | | | |
| 50 MG/KG | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | |
| | | 1 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 0 | |

ALIMENTARY SYSTEM

| | |
|----------------------------------|---|
| Esophagus | + |
| Intestine Large, Cecum | A + + + + + + + A + + + + + + + + + + + + + + + + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + + + + + + A + + + + + + + + + + + + + + + + + + + |
| Intestine Small, Ileum | A + + + + A A + A + + + + + + + + + + + + + + + + |
| Intestine Small, Jejunum | A + + + + + A + + + + + + + + + + + + + + + + + + + |
| Fibroma | |
| Liver | + |
| Hepatocellular Adenoma | |
| Hepatocellular Adenoma, Multiple | |
| Hepatocellular Carcinoma | |
| Hepatocholangioma | |
| Mesentery | + |
| Pancreas | + |
| Adenoma | |
| Salivary Glands | + |
| Stomach, Forestomach | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------------|-----------------------|
| WISTAR HAN RATS MALE
50 MG/KG | DAY ON TEST | 0
4
8
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
5
0
5 | 0
6
6
6 | 0
4
5
8 | 0
6
0
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
5
8
5 | 0
4
2
4 | 0
7
2
9 | 0
6
6
8 | 0
6
6
9 | 0
7
2
9 | 0
6
1
9 | 0
7
3
2 | 0
7
3
2 | males
(cont...) | |
| | ANIMAL ID | 0
0
1
6
1 | 0
0
1
6
3 | 0
0
1
6
4 | 0
0
1
6
6 | 0
0
1
6
7 | 0
0
1
6
8 | 0
0
1
6
9 | 0
0
1
6
0 | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
6
3 | 0
0
1
6
4 | 0
0
1
6
5 | 0
0
1
6
6 | 0
0
1
6
7 | 0
0
1
6
8 | 0
0
1
6
9 | 0
0
1
6
0 | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
6
3 | 0
0
1
6
4 | | 0
0
1
6
5 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |

Leiomyosarcoma

Stomach, Glandular

+ +

CARDIOVASCULAR SYSTEM

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex
Carcinoma

+ +

Adrenal Medulla

+ +

Islets, Pancreatic
Adenoma

+ +

Parathyroid Gland

+ +

Pituitary Gland
Pars Distalis, Adenoma
Pars Distalis, Adenoma, Multiple

+
X X

Thyroid Gland
C-cell, Adenoma
C-cell, Carcinoma
Follicular Cell, Adenoma

A +
X
X
X X

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 08/05/2014

Test Type: CHRONIC

Pentabromodiphenyl oxide (technical) (DE 71)

Time Report Requested: 10:18:12

Route: GAVAGE

CAS Number: 32534-81-9

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

Species/Strain: RATS/Wistar Han

Lab: SRI

| Wistar Han Rats Male | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) |
|----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 7 | 7 | 7 | 7 | 5 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 2 | 7 | 6 | 6 | 6 | 7 | 6 | |
| | 8 | 3 | 3 | 3 | 3 | 0 | 6 | 5 | 0 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 9 | 5 | 6 | 2 | 1 | |
| 50 MG/KG | 0 | 0 | 0 | 0 | 1 | 5 | 6 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 5 | 4 | 9 | 9 | 8 | 8 | 9 | 9 | 2 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 1 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | |

Tissue NOS

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma Malignant
Interstitial Cell, Adenoma | | | | | | | | | | | | X | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | | | | | | + | | | + | | | | | | | | + | | + | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric
Hemangioma
Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen
Hemangiosarcoma | | | | | | | | | | | X | | | | | | X | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
 Time Report Requested: 10:18:12
 First Dose M/F: 08/26/08 / 08/26/08
 Lab: SRI

| WISTAR HAN RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|
| | 0
4
8
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
5
0
5 | 0
6
6
8 | 0
4
6
5 | 0
6
0
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
5
8
5 | 0
4
2
4 | 0
7
2
9 | 0
7
2
9 | 0
6
6
8 | 0
6
5
8 | 0
6
6
9 | 0
7
2
9 | 0
6
1
9 | 0
7
3
2 | 0
7
3
2 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | M | M | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | M | + | + | + | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
4
8
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
5
0
5 | 0
6
6
6 | 0
4
5
8 | 0
6
0
9 | 0
6
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
5
8
5 | 0
4
2
4 | 0
7
2
9 | 0
7
2
9 | 0
6
9
8 | 0
6
5
8 | 0
6
6
9 | 0
7
2
9 | 0
6
1
9 | 0
7
3
2 | 0
7
3
2 | | | |
| ANIMAL ID | 0
0
1
6
1 | 0
0
1
6
3 | 0
0
1
6
4 | 0
0
1
6
6 | 0
0
1
6
7 | 0
0
1
6
8 | 0
0
1
6
9 | 0
0
1
6
0 | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
6
3 | 0
0
1
6
4 | 0
0
1
6
5 | 0
0
1
6
6 | 0
0
1
6
7 | 0
0
1
6
8 | 0
0
1
6
9 | 0
0
1
6
0 | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
6
3 | 0
0
1
6
4 | 0
0
1
6
5 | 0
0
1
6
6 | 0
0
1
6
7 | 0
0
1
6
8 | 0
0
1
6
9 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland
Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney
Lipoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary Bladder
Leiomyoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ
Mesothelioma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|----------|
| | 0351 | 0371 | 0367 | 0366 | 0374 | 0377 | 0377 | 0377 | 0375 | 0377 | 0377 | 0377 | 0377 | 0367 | 0377 | 0377 | 0375 | 0366 | 0337 | 0377 | 0375 | 0366 | 0337 | 0375 | 0366 | |
| ANIMAL ID | 00191 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | |
| Leiomyosarcoma | | | | | X | | | | | | | | | | | | | | | | | | | | 1 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 49 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 49
1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 49 | |
| Islets, Pancreatic
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pituitary Gland
Pars Distalis, Adenoma
Pars Distalis, Adenoma, Multiple | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
34
1 | |
| Thyroid Gland
C-cell, Adenoma
C-cell, Carcinoma
Follicular Cell, Adenoma | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | 46
6
1
6 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0351 | 0371 | 0367 | 0366 | 0374 | 0377 | 0377 | 0377 | 0355 | 0377 | 0377 | 0377 | 0377 | 0366 | 0377 | 0377 | 0377 | 0355 | 0366 | 0333 | 0377 | 0377 | 0355 | 0366 | |
| ANIMAL ID | 00191 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | |
| | 1191 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | |
| | 12 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 8 | 9 | 0 | |

Tissue NOS + 1

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Interstitial Cell, Adenoma | | | | | | | | | X | | | | | | X | | | | | | | | | X | 4 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node | | | | | + | | | | + | | | | | | | | | | | | | | | | 6 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemangioma | | | | | | | | | X | | | | | | | | | | | | | | | | 1 |
| Hemangiosarcoma | | | | | | | | | | X | | | | | | | X | | | | | | | | 4 |
| Spleen | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | X | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0351 | 0371 | 0366 | 0366 | 0374 | 0374 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | | |
| ANIMAL ID | 00191 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | M | + | + | + | M | + | + | + | 41 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosarcoma | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | | |
| Schwannoma Malignant | | | | X | | | X | | | | | | | | | | | | | | | | | | 2 | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | X | | | | | | | | | 2 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Granular Cell Tumor Benign | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | | |
| Meninges, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | X | X | 2 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Carcinoma, Metastatic, Adrenal Cortex | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosarcoma | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 49 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
4
4
5 | 0
6
9
4 | 0
7
3
6 | 0
7
3
6 | 0
5
9
2 | 0
2
9
2 | 0
5
8
5 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
5
8
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | | |
| ANIMAL ID | 0
0
2
2
1 | 0
0
2
2
2 | 0
0
2
2
3 | 0
0
2
2
4 | 0
0
2
2
5 | 0
0
2
2
6 | 0
0
2
2
9 | 0
0
2
3
1 | 0
0
2
3
2 | 0
0
2
3
3 | 0
0
2
3
4 | 0
0
2
3
5 | 0
0
2
3
6 | 0
0
2
4
0 | 0
0
2
4
1 | 0
0
2
4
2 | 0
0
2
4
3 | 0
0
2
4
4 | 0
0
2
4
5 | 0
0
2
4
6 | 0
0
2
4
7 | 0
0
2
4
8 | 0
0
2
5
0 | 0
0
2
5
2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | X | | | | | | | | | | | | | | | X |
| Hepatocellular Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | + | | | | | | | | + | + | | | | | | | | | | | | | + |
| Granulosa Cell Tumor Malignant, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sublingual Gland, Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | X |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| WISTAR HAN RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| 0 MG/KG | | 4 | 6 | 7 | 7 | 5 | 2 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | | 7 |
| ANIMAL ID | | 4 | 9 | 3 | 3 | 9 | 9 | 8 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 5 | 4 | 6 | 6 | 2 | 2 | 5 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tooth | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Complex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland
Pars Distalis, Adenoma
Pars Distalis, Adenoma, Multiple
Pars Intermedia, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland
C-cell, Adenoma | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|-----------------------|--|
| | 0
4
4
5 | 0
6
9
4 | 0
7
3
6 | 0
7
3
6 | 0
5
9
2 | 0
2
9
2 | 0
5
8
5 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
5
8
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
2
2
1 | |

C-cell, Adenoma, Multiple
 Follicular Cell, Adenoma

X
 X

GENERAL BODY SYSTEM

Tissue NOS +

GENITAL SYSTEM

Clitoral Gland +

Ovary +
 Granulosa Cell Tumor Benign
 Granulosa Cell Tumor Malignant

Uterus +
 Adenocarcinoma, Multiple X
 Adenoma
 Malignant Mixed Mullerian Tumor X
 Polyp Stromal X
 Cervix, Granular Cell Tumor Benign X
 Cervix, Schwannoma Malignant X

Vagina M M M M M + M M M M M M M M M M M M M M M M M M M

HEMATOPOIETIC SYSTEM

Bone Marrow +

Lymph Node + + + + + + +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
| | 0
4
4
5 | 0
6
9
4 | 0
7
3
6 | 0
7
3
6 | 0
5
9
2 | 0
2
9
2 | 0
5
8
5 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
5
8
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | | |
| ANIMAL ID | 0
0
2
2
1 | 0
0
2
2
2 | 0
0
2
2
2 | 0
0
2
2
2 | 0
0
2
2
2 | 0
0
2
2
2 | 0
0
2
2
2 | 0
0
2
3
3 | 0
0
2
3
3 | 0
0
2
3
3 | 0
0
2
3
3 | 0
0
2
3
3 | 0
0
2
3
3 | 0
0
2
3
3 | 0
0
2
4
4 | 0
0
2
4
4 | 0
0
2
4
4 | 0
0
2
4
4 | 0
0
2
4
4 | 0
0
2
4
4 | 0
0
2
4
4 | 0
0
2
5
5 | 0
0
2
5
5 | 0
0
2
5
5 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mesenteric Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma, Multiple | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Basal Cell Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Femur, Osteosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granulosa Cell Tumor Malignant, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
 Time Report Requested: 10:18:12
 First Dose M/F: 08/26/08 / 08/26/08
 Lab: SRI

| Wistar Han Rats Female
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
| | 0
4
4
5 | 0
6
9
4 | 0
7
3
6 | 0
7
3
6 | 0
5
9
2 | 0
2
9
2 | 0
5
8
5 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
6
2
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
5
8
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Malignant Mixed Mullerian Tumor, Metastatic, Uterus | | | | | | | | | | | X | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chondroma | | | | | | | | | | | | | | X | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| WISTAR HAN RATS FEMALE
0 MG/KG | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 6 | 7 | 7 | 5 | 2 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 4 | 9 | 3 | 3 | 9 | 9 | 8 | 3 | 3 | 2 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 4 | 6 | 6 | 2 | 2 | 5 | 6 | 6 | 7 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 0 | 2 | 3 | 3 | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WISTAR HAN RATS FEMALE | | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 |
| 0 MG/KG | | 0 | 3 | 3 | 3 | 3 | 3 | 2 | 9 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 6 | 3 | 3 |
| ANIMAL ID | | 8 | 5 | 5 | 5 | 5 | 2 | 5 | 2 | 2 | 8 | 6 | 2 | 2 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 48 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | 47 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | 47 |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | 46 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hepatocellular Adenoma, Multiple | | | | | | | | | | | | | | | | | X | | | | | | 1 |
| Mesentery | + | | | | | | | | | + | + | | | | | | | | + | + | | | 10 |
| Granulosa Cell Tumor Malignant, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Sublingual Gland, Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|
| | 0
5
0
8 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
2 | 0
7
3
5 | 0
5
2
2 | 0
5
2
2 | 0
7
0
8 | 0
7
3
6 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
6 | 0
7
3
6 | 0
6
4
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | | 0
7
3
6 | 0
7
3
6 | | | |
| ANIMAL ID | 0
0
2
5
4 | 0
0
2
5
5 | 0
0
2
5
5 | 0
0
2
5
5 | 0
0
2
5
5 | 0
0
2
5
6 | 0
0
2
5
6 | 0
0
2
6
6 | 0
0
2
6
6 | 0
0
2
6
6 | 0
0
2
6
6 | 0
0
2
6
6 | 0
0
2
6
6 | 0
0
2
6
6 | 0
0
2
7
7 | 0
0
2
7
7 | 0
0
2
7
7 | 0
0
2
7
7 | 0
0
2
7
7 | 0
0
2
7
7 | 0
0
2
7
7 | 0
0
2
7
7 | 0
0
2
7
8 | 0
0
2
7
8 | 0
0
2
8
0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 49 | |
| Tooth | | | | | | | | | | | | | | | | | | | + | | | | | | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pheochromocytoma Benign | | | | | | | | | | | | | X | | | | | | | | | | | 1 | | |
| Pheochromocytoma Complex | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | I | + | 1 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pars Distalis, Adenoma | | | | | | | | | | | X | | X | | | X | X | | | | | X | X | 21 | | |
| Pars Distalis, Adenoma, Multiple | | | | | X | | | | | | | | | | | | | | X | | | | 2 | | | |
| Pars Intermedia, Adenoma | | | | | | | | | X | | | | | | | | | | | | | | 1 | | | |
| Thyroid Gland | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | 45 | | |
| C-cell, Adenoma | | | | | | | | | | X | | | | | | | | X | | | | | X | 6 | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|----------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| WISTAR HAN RATS FEMALE | | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 0 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | |
| | 0 MG/KG | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 9 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | |
| | ANIMAL ID | 8 | 5 | 5 | 5 | 5 | 2 | 5 | 2 | 2 | 8 | 6 | 2 | 7 | 2 | 2 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

C-cell, Adenoma, Multiple
 Follicular Cell, Adenoma

1
 1

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | 3 |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 49 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granulosa Cell Tumor Benign | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Granulosa Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | X | | | | | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Malignant Mixed Mullerian Tumor | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Polyp Stromal | | | | | | | | | X | | | | | | | | | | X | | | | | 3 |
| Cervix, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cervix, Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Vagina | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | 10 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|--|
| | 0508 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | 0705 | | | |
| ANIMAL ID | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | 0078 | 0079 | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymph Node, Mesenteric Hemangiosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | | |
| Fibroadenoma | | | | | | X | X | | | | | | | | | X | X | | | | | | X | X | 8 | | |
| Fibroadenoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Skin Basal Cell Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Femur, Osteosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | | |
| Skeletal Muscle Granulosa Cell Tumor Malignant, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | 1
1 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
5
0
8 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
2 | 0
7
3
5 | 0
5
2
2 | 0
5
2
2 | 0
7
0
8 | 0
7
3
6 | 0
7
3
2 | 0
7
3
7 | 0
7
3
2 | 0
7
3
2 | 0
7
3
6 | 0
7
3
6 | 0
6
4
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | | | |
| ANIMAL ID | 0
0
2
5
4 | 0
0
2
5
5 | 0
0
2
5
6 | 0
0
2
5
7 | 0
0
2
5
8 | 0
0
2
5
9 | 0
0
2
6
0 | 0
0
2
6
1 | 0
0
2
6
3 | 0
0
2
6
4 | 0
0
2
6
5 | 0
0
2
6
6 | 0
0
2
6
7 | 0
0
2
6
8 | 0
0
2
6
9 | 0
0
2
7
0 | 0
0
2
7
1 | 0
0
2
7
2 | 0
0
2
7
3 | 0
0
2
7
4 | 0
0
2
7
5 | 0
0
2
7
6 | 0
0
2
7
7 | 0
0
2
7
8 | 0
0
2
7
9 | 0
0
2
8
0 |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Malignant Mixed Mullerian Tumor, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Chondroma | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | M | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | 47 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | + | | | | | | | | | | | | | | | 1 |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0735 | 0738 | 0735 | 0735 | 0735 | 0732 | 0732 | 0739 | 0732 | 0732 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | |
| ANIMAL ID | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Thymus
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Carcinoma
Fibroadenoma
Fibroadenoma, Multiple | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Skin
Schwannoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0735 | 0738 | 0735 | 0735 | 0735 | 0732 | 0732 | 0739 | 0732 | 0732 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | |
| ANIMAL ID | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|----|
| | 0
7
3
5 | 0
6
5
1 | 0
6
5
8 | 0
7
3
5 | 0
7
3
5 | 0
7
3
6 | 0
5
8
5 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | | | |
| ANIMAL ID | 0
0
3
0
6 | 0
0
3
0
7 | 0
0
3
0
8 | 0
0
3
0
9 | 0
0
3
1
0 | 0
0
3
1
1 | 0
0
3
1
1 | 0
0
3
1
1 | 0
0
3
1
1 | 0
0
3
1
1 | 0
0
3
1
1 | 0
0
3
1
1 | 0
0
3
1
1 | 0
0
3
1
1 | 0
0
3
2
2 | 0
0
3
2
2 | 0
0
3
2
2 | 0
0
3
2
2 | 0
0
3
2
2 | 0
0
3
2
2 | 0
0
3
2
2 | 0
0
3
2
2 | 0
0
3
2
2 | 0
0
3
2
2 | 0
0
3
2
2 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 49 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 49 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 49 | |
| Carcinoma | | | X | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fibroadenoma | | | | | | X | | | X | | | | | | X | | | | | | X | | X | | | 7 | |
| Fibroadenoma, Multiple | | | | X | | | X | | | | | | | | | | | | | | | | | | | 3 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Schwannoma Malignant | | | | | | X | | | | | | | | | | | | | | | | | | | | 1 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--|
| | 0735 | 0651 | 0658 | 0735 | 0735 | 0736 | 0755 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | | 0773 | |
| ANIMAL ID | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 49 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymphoma Malignant | | X | | | X | | | | | | | | | | | | | | | | | | | | 3 | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|
| | 0
7
3
5 | 0
7
3
5 | 0
5
8 | 0
7
3
5 | 0
7
3
5 | 0
5
3 | 0
6
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | | | | | | | |
| ANIMAL ID | 0
0
3
3
1 | 0
0
3
3
2 | 0
0
3
3
3 | 0
0
3
3
4 | 0
0
3
3
5 | 0
0
3
3
6 | 0
0
3
3
7 | 0
0
3
3
8 | 0
0
3
3
9 | 0
0
3
3
0 | 0
0
3
3
1 | 0
0
3
3
2 | 0
0
3
3
3 | 0
0
3
3
4 | 0
0
3
3
5 | 0
0
3
3
6 | 0
0
3
3
7 | 0
0
3
3
8 | 0
0
3
3
9 | 0
0
3
3
0 | 0
0
3
3
1 | 0
0
3
3
2 | 0
0
3
3
3 | 0
0
3
3
4 | 0
0
3
3
5 | 0
0
3
3
6 | |
| Pancreas
Adenocarcinoma, Metastatic, Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach
Adenocarcinoma, Metastatic, Uterus
Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular
Adenocarcinoma, Metastatic, Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Adenocarcinoma, Metastatic, Uterus
Leukemia Granulocytic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Complex
Pheochromocytoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|-----------------------|------------------|
| | 0
7
3
5 | 0
7
3
5 | 0
5
0
8 | 0
7
3
5 | 0
7
3
5 | 0
5
5
3 | 0
6
5
6 | 0
7
3
6 | 0
7
3
0 | 0
7
3
6 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
6
8
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
6
7
6 | | | 0
7
3
6 | 0
7
3
6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
3
3
1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | X | | X | | X | X | | | X | X | | X | | | X | X | | | | | | | X | X | |
| Pars Intermedia, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| C-cell, Adenoma | | | | | | | | | | | X | | | X | | | X | | | | | | | | | |
| C-cell, Adenoma, Multiple | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Follicular Cell, Adenoma | | | | | | | | | | X | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|--|--|--|---|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenocarcinoma, Metastatic, Uterus | | | | | + | | | | + | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cystadenoma | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Schwannoma Malignant, Metastatic, Mesentery | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | | | X | | | | | | | | | | | | X | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | | | | X | X | | | X | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| WISTAR HAN RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| 15 MG/KG | | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 3 | 7 | 7 |
| ANIMAL ID | | 3 | 3 | 0 | 3 | 3 | 5 | 5 | 3 | 3 | 3 | 3 | 5 | 3 | 8 | 3 | 3 | 1 | 3 | 3 | 3 | 7 | 6 |
| | | 5 | 5 | 8 | 5 | 5 | 3 | 6 | 6 | 0 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 6 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |

Eye + + + + + + + + + + + + + + + + + A + + + + + + +

Harderian Gland +

URINARY SYSTEM

Kidney +

Urinary Bladder +
Adenocarcinoma, Metastatic, Uterus X

SYSTEMIC LESIONS

Multiple Organ +

Histiocytic Sarcoma
Leukemia Granulocytic X

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0676 | 0736 | 0569 | 0771 | 0776 | 0776 | 0670 | 0776 | 0776 | 0472 | 0776 | 0776 | 0676 | 0776 | 0776 | 0676 | 0776 | 0776 | 0676 | 0776 | 0378 | 0776 | 0776 | 0776 | |
| ANIMAL ID | 00356 | 00335 | 00355 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | 00366 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | 47 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 49 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | 47 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | 48 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | 47 |
| Leiomyoma | | | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma, Metastatic, Uterus | | | | X | | | | | | | | | | | | | | | | | | | | | 2 |
| Hepatocellular Adenoma | | | | | | | | X | | | | | | | | | | | | X | | | | | 6 |
| Hepatocellular Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Mesentery | | | | | + | | | | | | | | | | | | + | | | + | | | | | 9 |
| Adenocarcinoma, Metastatic, Uterus | | | | | X | | | | | | | | | | | | | | | | | | | | 3 |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--|
| | 0676 | 0736 | 0756 | 0776 | 0776 | 0776 | 0676 | 0776 | 0776 | 0476 | 0776 | 0776 | 0676 | 0776 | 0776 | 0676 | 0776 | 0776 | 0676 | 0776 | 0376 | 0776 | 0776 | 0776 | | |
| ANIMAL ID | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | 003566 | | |
| Pancreas
Adenocarcinoma, Metastatic, Uterus | + | + | + | X | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 49
3 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 49 | |
| Stomach, Forestomach
Adenocarcinoma, Metastatic, Uterus
Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2
1 | |
| Stomach, Glandular
Adenocarcinoma, Metastatic, Uterus | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | + | | | | | | | | + | | | + | | | | | | | | | | 3 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Adenocarcinoma, Metastatic, Uterus
Leukemia Granulocytic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2
2 | |
| Adrenal Medulla
Pheochromocytoma Benign
Pheochromocytoma Complex
Pheochromocytoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1
1
1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 49 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|
| | 066 | 073 | 075 | 077 | 077 | 077 | 076 | 077 | 077 | 074 | 077 | 076 | 077 | 076 | 077 | 076 | 077 | 076 | 073 | 077 | | 077 |
| ANIMAL ID | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Adenoma | X | | | | | X | | | X | | X | | X | | X | | X | X | X | X | X | 23 |
| Pars Intermedia, Adenoma | | | | | | | | | | | | | | | | | | X | | | | 2 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | 47 |
| C-cell, Adenoma | | | | | | | | | X | | | | | | | | | X | | | X | 7 |
| C-cell, Adenoma, Multiple | | X | | | | | | | | | | | | | | | | | | | | 3 |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | X | X | | | | | | 3 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | + | | | + | | | | | | | | | | | | | | 4 |
| Adenocarcinoma, Metastatic, Uterus | | | | | X | | | | | | | | | | | | | | | | | 2 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma, Metastatic, Uterus | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Cystadenoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | 1 |
| Schwannoma Malignant, Metastatic, Mesentery | | | | | | | | | | | | | | | | | | | | | | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma | | | | X | | | | | | | | | | | | | | | | | | 3 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Granular Cell Tumor Benign | | X | | | | | | | | | | | | | | | | | | | | 1 |
| Polyp Stromal | | | | | | | | | | X | | | | | | | X | | | X | | 6 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----------|
| | 0676 | 0736 | 0756 | 0776 | 0776 | 0776 | 0766 | 0776 | 0776 | 0746 | 0776 | 0766 | 0776 | 0766 | 0776 | 0776 | 0776 | 0766 | 0776 | 0736 | 0776 | 0776 | 0776 | | |
| ANIMAL ID | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| Polyp Stromal, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Sarcoma Stromal | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Schwannoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | | 2 | |
| Vagina | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | 2 | |
| Sarcoma Stromal, Metastatic, Uterus | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Schwannoma Malignant, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Granulocytic | | | | X | | | | | | | | | | | | | | | | | | | | 2 | |
| Lymph Node | | + | | | | + | | | | | | | | | | | | | | | | | | 6 | |
| Mediastinal, Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Adenocarcinoma, Metastatic, Uterus | | | | | X | | | | | | | | | | | | | | | | | | | 1 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Granulocytic | | | | | X | | | | | | | | | | | | | | | | | | | 2 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 48 | |

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--|--|
| | 0676 | 0736 | 0569 | 0701 | 0736 | 0776 | 0670 | 0776 | 0776 | 0475 | 0776 | 0676 | 0776 | 0676 | 0776 | 0676 | 0776 | 0676 | 0776 | 0373 | 0736 | 0736 | 0736 | | | | |
| ANIMAL ID | 003567 | 003335 | 003556 | 003660 | 003661 | 003662 | 003663 | 003664 | 003665 | 003666 | 003667 | 003668 | 003669 | 003670 | 003671 | 003672 | 003673 | 003674 | 003675 | 003676 | 003677 | 003678 | 003679 | 003680 | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Fibroadenoma | X | X | | | | | X | | | | | | | | | | | | | | | | X | | 10 | | |
| Fibroadenoma, Multiple | | | | | | X | | | | | | | | | | | | | | | | | | | 2 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Schwannoma Malignant, Metastatic, Uterus | | | X | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| DAY ON TEST | WISTAR HAN RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|------------------------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|------|--|
| | 0676 | 0736 | 0569 | 0701 | 0733 | 0736 | 0610 | 0736 | 0742 | 0773 | 0673 | 0763 | 0773 | 0673 | 0763 | 0773 | 0673 | 0763 | 0773 | 0673 | 0763 | 0773 | 0673 | 0763 | | 0773 | |
| ANIMAL ID | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | 003567 | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | 47 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 | |
| Adenocarcinoma, Metastatic, Uterus | | | | X | | | | | | | | | | | | | | | | | | | | | | 2 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | X | | | | | | | | | | | 1 | |
| Leukemia Granulocytic | | | X | | | | | | | | | | | | | | | | | | | | | | | 2 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
| | 0
7
3
5 | 0
0
0
3 | 0
7
3
5 | 0
6
4
7 | 0
7
2
9 | 0
7
2
9 | 0
6
7
7 | 0
7
2
9 | 0
5
5
3 | 0
7
3
6 | 0
7
3
6 | 0
7
3
6 | 0
6
1
9 | 0
7
3
6 | 0
7
3
6 | 0
7
0
2 | 0
7
2
2 | 0
6
4
5 | 0
7
2
9 | 0
0
0
3 | 0
6
3
0 | 0
5
3
7 | 0
7
3
5 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
3
8
2 | | |

Oral Mucosa

Pancreas
Carcinoma

Salivary Glands
Parotid Gland, Adenocarcinoma

Stomach, Forestomach

Stomach, Glandular
Carcinoma, Metastatic, Pancreas

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart

ENDOCRINE SYSTEM

Adrenal Cortex

Adrenal Medulla

Islets, Pancreatic

Parathyroid Gland

Pituitary Gland
Pars Distalis, Adenoma

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 0 | 7 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | | |
| | 3 | 0 | 3 | 4 | 2 | 2 | 7 | 2 | 5 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 0 | 2 | 2 | 4 | 2 | 0 | 6 | | |
| | 5 | 3 | 5 | 7 | 9 | 9 | 7 | 9 | 3 | 6 | 6 | 6 | 9 | 6 | 6 | 6 | 2 | 9 | 9 | 5 | 9 | 3 | 0 | 5 | |
| 50 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | | | |

Granular Cell Tumor Benign, Multiple
Polyp, Multiple

X

X

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular
Adenocarcinoma, Metastatic, Salivary Glands | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + |
| Spleen | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + |
| Thymus
Thymoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | A | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Multiple | X | | | | | | X | | | | | | | | | | X | | | | | | | | | |
| Fibroadenoma | | | | | | | X | | | | | | | | | | | | | | | | | | X | X |
| Fibroadenoma, Multiple | | | | | | | | | | | | | | | | X | X | | | | | | | | | |
| Skin
Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------------|
| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| | 0735 | 0033 | 0075 | 0064 | 0072 | 0079 | 0067 | 0072 | 0053 | 0073 | 0073 | 0073 | 0061 | 0073 | 0073 | 0073 | 0070 | 0072 | 0072 | 0064 | 0072 | 0060 | 0065 | 0057 | |
| | 53 | 33 | 55 | 74 | 22 | 29 | 77 | 27 | 33 | 66 | 66 | 66 | 99 | 66 | 66 | 66 | 22 | 29 | 29 | 55 | 99 | 33 | 33 | 75 | |
| 50 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | |
| | 23 | 33 | 44 | 55 | 66 | 77 | 88 | 88 | 99 | 11 | 22 | 33 | 55 | 66 | 77 | 88 | 99 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |

Multiple Organ
Histiocytic Sarcoma

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|---------|
| | 0597 | 0739 | 0373 | 0772 | 0772 | 0378 | 0668 | 0661 | 0733 | 0733 | 0668 | 0662 | 0666 | 0733 | 0733 | 0733 | 0733 | 0733 | 0229 | 0473 | 0574 | 0733 | | |
| ANIMAL ID | 0040 | 0044 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas
Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 47
1 |
| Salivary Glands
Parotid Gland, Adenocarcinoma | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 45
1 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Stomach, Glandular
Carcinoma, Metastatic, Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 46
1 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Pituitary Gland
Pars Distalis, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47
20 | |
| | X | X | X | | X | | X | X | | | X | X | X | | | | | | | | | X | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
5
9
7 | 0
7
3
5 | 0
3
9
6 | 0
7
3
2 | 0
7
2
9 | 0
7
2
9 | 0
3
8
5 | 0
6
8
6 | 0
6
1
7 | 0
7
3
5 | 0
7
3
5 | 0
6
8
7 | 0
6
2
6 | 0
6
6
9 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
2
2
5 | 0
4
9
0 | 0
7
3
6 | 0
5
4
3 | 0
7
3
6 | |
| ANIMAL ID | 0
0
4
0
9 | 0
0
4
1
0 | 0
0
4
1
2 | 0
0
4
1
1 | 0
0
4
1
1 | 0
0
4
1
1 | 0
0
4
1
1 | 0
0
4
1
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
3
1 | 0
0
4
3
2 | 0
0
4
3
3 | 0
0
4
3
3 | 0
0
4
3
3 | 0
0
4
3
3 | 0
0
4
3
3 | 0
0
4
3
3 |

Pars Distalis, Adenoma, Multiple
 Pars Intermedia, Adenoma

1
1

Thyroid Gland
 C-cell, Adenoma
 C-cell, Adenoma, Multiple
 Follicular Cell, Adenoma

A + + + + + + + + + + + + + + + + + + A + A +

42
2
2
1

GENERAL BODY SYSTEM

Tissue NOS
 Abdominal, Carcinoma, Metastatic, Pancreas

2
1

GENITAL SYSTEM

Clitoral Gland
 Ovary
 Carcinoma, Metastatic, Pancreas
 Cystadenoma
 Granulosa Cell Tumor Benign
 Uterus
 Adenocarcinoma
 Carcinoma, Metastatic, Pancreas
 Histiocytic Sarcoma
 Polyp Stromal
 Schwannoma Malignant
 Cervix, Polyp Stromal

+ + + + + + + + + + + + + + + + + + M + + +
 + + + + + + + + + + + + + + + + + + M + + +
 X
 X
 X
 + + + + + + + + + + M + + +
 X
 X X
 X
 M

47
46
1
2
2
47
2
1
1
5
1
1
2

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
5
9
7 | 0
7
3
5 | 0
3
9
6 | 0
7
3
2 | 0
7
2
9 | 0
7
8
5 | 0
3
8
6 | 0
6
8
7 | 0
6
1
5 | 0
7
3
5 | 0
7
8
7 | 0
6
2
7 | 0
6
6
9 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
2
2
5 | 0
4
9
0 | 0
7
3
6 | | 0
5
4
3 | 0
7
3
6 | |
| ANIMAL ID | 0
0
4
0
9 | 0
0
4
1
0 | 0
0
4
1
2 | 0
0
4
1
1 | 0
0
4
1
1 | 0
0
4
1
1 | 0
0
4
1
1 | 0
0
4
2
0 | 0
0
4
2
1 | 0
0
4
2
3 | 0
0
4
2
5 | 0
0
4
2
7 | 0
0
4
2
8 | 0
0
4
2
9 | 0
0
4
3
0 | 0
0
4
3
1 | 0
0
4
3
2 | 0
0
4
3
3 | 0
0
4
3
4 | 0
0
4
3
5 | 0
0
4
3
6 | 0
0
4
3
8 | 0
0
4
3
9 | 0
0
4
3
0 |

Granular Cell Tumor Benign, Multiple
Polyp, Multiple

1
1

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Bone Marrow | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 46 |
| Lymph Node | | | + | | | | + | | | | | | + | + | | | | | | | | | | 9 |
| Lymph Node, Mandibular
Adenocarcinoma, Metastatic, Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Thymus
Thymoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 46
1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Mammary Gland
Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | 48
3 |
| Carcinoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fibroadenoma | | | | | | | X | | | | | X | | X | | | | | | | | | | 6 |
| Fibroadenoma, Multiple | | | | | | | | | | | X | | | | | | | | | | | | | 3 |
| Skin
Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | 49
2 |

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| WISTAR HAN RATS FEMALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
5
9
7 | 0
7
3
5 | 0
3
9
6 | 0
7
3
2 | 0
7
2
9 | 0
7
2
5 | 0
3
8
6 | 0
6
8
6 | 0
6
1
7 | 0
7
3
5 | 0
7
3
5 | 0
6
8
7 | 0
6
2
6 | 0
6
3
5 | 0
7
3
5 | 0
7
3
5 | 0
7
3
5 | 0
2
2
5 | 0
4
9
0 | 0
7
3
6 | | 0
5
4
3 | 0
7
3
6 | |
| ANIMAL ID | 0
0
4
0
9 | 0
0
4
1
0 | 0
0
4
1
2 | 0
0
4
1
1 | 0
0
4
1
1 | 0
0
4
1
1 | 0
0
4
1
1 | 0
0
4
1
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
2
2 | 0
0
4
3
3 | 0
0
4
3
3 | 0
0
4
3
3 | 0
0
4
3
3 | 0
0
4
3
3 | 0
0
4
3
3 | 0
0
4
3
3 | 0
0
4
3
3 | 0
0
4
3
3 |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenocarcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Carcinoma, Metastatic, Pancreas | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 45 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:18:12

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|-----------------|
| DAY ON TEST | | 0573770000 | 0737773667 | 0939322881 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | 0077995686 | | |
| WISTAR HAN RATS FEMALE | | 797 | 539 | 632 | 299 | 685 | 885 | 187 | 335 | 335 | 827 | 269 | 635 | 335 | 335 | 335 | 335 | 335 | 335 | 225 | 490 | 734 | 057 | |
| 50 MG/KG | | 797 | 539 | 632 | 299 | 685 | 885 | 187 | 335 | 335 | 827 | 269 | 635 | 335 | 335 | 335 | 335 | 335 | 335 | 225 | 490 | 734 | 057 | |
| ANIMAL ID | | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | 0400 | |
| | | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | |
| | | 019 | 110 | 111 | 111 | 111 | 111 | 111 | 111 | 220 | 222 | 222 | 222 | 222 | 222 | 222 | 330 | 333 | 333 | 333 | 333 | 333 | 333 | |
| | | 902 | 005 | 666 | 777 | 888 | 999 | 000 | 111 | 333 | 555 | 777 | 888 | 999 | 000 | 111 | 222 | 444 | 555 | 666 | 888 | 999 | 000 | * TOTALS |
| | | 902 | 005 | 666 | 777 | 888 | 999 | 000 | 111 | 333 | 555 | 777 | 888 | 999 | 000 | 111 | 222 | 444 | 555 | 666 | 888 | 999 | 000 | 49 |
| | | 902 | 005 | 666 | 777 | 888 | 999 | 000 | 111 | 333 | 555 | 777 | 888 | 999 | 000 | 111 | 222 | 444 | 555 | 666 | 888 | 999 | 000 | 1 |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma | | | | | | | | X | | | | | | | | | | | | | | | | |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically