

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/12/2014
Time Report Requested: 10:27:34
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

F1_Rev.1_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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | | |
| | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | |
| Periesophageal Tissue, Inflammation, Granulomatous, Chronic | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum Epithelium, Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum Epithelium, Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | X | | | | | | | | | | | | | X | X | | | | X | | X | | |
| Basophilic Focus, Multiple | | X | | | | | | | | X | | X | | | | X | | | | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus, Multiple | X | X | X | X | | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | X | | | | X | | | | | X | | | | | | | |
| Fatty Change | | 1 | 1 | 1 | 4 | 1 | 1 | 4 | 1 | | | | | 1 | 1 | 1 | 1 | | | | 1 | 3 | 1 |
| Fibrosis | | | | | | | | | | | | | | 1 | | | | | | | | | 4 |
| Hemorrhage | | | | | | | | | | | | | | | | 2 | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

Ulcer Epithelium, Hyperplasia

2 3 1 3 2

Stomach, Glandular Mineralization

+
1 1

Tooth

+

CARDIOVASCULAR SYSTEM

Heart Cardiomyopathy Epicardium, Inflammation, Granulomatous

+
2 1 1 1 1 2 1 1 1 2 2 2 1 2 2 1 2 2 1 2

ENDOCRINE SYSTEM

Adrenal Cortex Angiectasis Degeneration, Cystic Hyperplasia, Focal Hypertrophy, Focal Vacuolization Cytoplasmic

+
1
1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Adrenal Medulla

+ +

Islets, Pancreatic Hyperplasia

+ +

Parathyroid Gland Cyst, Multiple

+
3

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0733 | 0733 | 0733 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | |
| 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 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst, Multiple | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | | | 1 | 1 | | | 2 | | 1 | | | | | 1 | 2 | | | | 1 | 1 | 1 | | | 2 | | |
| Pars Intermedia, Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Pars Intermedia, Hyperplasia, Focal | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Nervosa, Inflammation, Chronic | | 2 | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 2 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | |
| Follicle, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | 1 | | | | | | 1 | | | | | | | | | | | 1 | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Granulomatous, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | 1 | | | | | 1 | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Ectasia | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | |

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 1 | | | 2 | | | 1 | | 1 | 1 | | 1 | | | | 1 | | | 1 | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration | | | 2 | | 2 | | 1 | | | | | 3 | | 4 | | 2 | | 4 | | | 3 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | | | | | | | | | | | | | | | 1 | | | | | | 2 |
| Hemorrhage | | | 2 | | 1 | | 3 | | | | | | 2 | | | | | | | | | |
| Pigmentation, Hemosiderin | | | | | 1 | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | 1 | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis, Focal | | | | | 2 | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | 1 | | 2 | | 1 | | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 2 | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 6 7 6 | 0 7 3 0 | 0 7 3 2 | 0 5 3 2 | 0 7 3 2 | 0 7 3 2 | 0 7 3 2 | 0 7 3 2 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 6 2 0 | 0 7 2 9 | 0 7 2 9 | 0 6 6 9 | 0 7 3 1 | 0 7 3 1 | 0 5 1 5 | | | | |
| Hemorrhage, Focal Pigmentation | | | | | 1 | 1 | | 1 | 1 | 1 | | | | | 4 | | | | 1 | | | | 2 | | | |
| Thymus Atrophy Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | | | 4 | | 1 | 1 | | | | | | | 1 | | 3 | | | 3 | 2 | | 3 | | | |
| | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Pigmentation, Hemosiderin Duct, Dilatation | M | + | M | + | + | + | + | + | + | M | + | M | M | M | + | + | + | M | M | + | M | + | + | | | |
| | | | | | 1 | | | | | | | | | | | | | 1 | | | | | | | | |
| Skin Cyst Epithelial Inclusion Inflammation, Acute Inflammation, Chronic Inflammation, Chronic Active Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain Compression | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | 2 | | | | 3 | | | 3 | | | | | | | | | | 1 | | | | 1 | 3 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | |
| | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 0 | | |
| | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 6 | 3 | 3 | 1 | 0 | |
| | 0 | 0 | 0 | 0 | 6 | 0 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 9 | 9 | 9 | 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 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 | 3 | |

Peripheral Nerve

+

Spinal Cord

+

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Histiocyte | | | | 1 | | 1 | 1 | | 1 | | 1 | 1 | | 1 | 1 | | 1 | | 1 | 1 | | 1 |
| Inflammation, Granulomatous, Multifocal | | | | | | | | | | | | | 2 | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | 3 | | | | | | | | | | | | | | | | |
| Mediastinum, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fungus | | | | | | | | | | | | 2 | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | 2 | | | | | | | | | | |
| Squamous Epithelium, Cyst | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Retina, Atrophy | | 2 | | | | 2 | | | | | | | | 2 | | | | | | 2 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|
| WISTAR HAN RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 7 3 0 | 0 6 7 6 | 0 7 3 0 | 0 7 3 2 | 0 5 3 3 | 0 7 5 2 | 0 7 3 2 | 0 7 3 2 | 0 7 3 2 | 0 7 3 2 | 0 7 3 1 | 0 7 3 1 | 0 7 3 0 | 0 6 2 0 | 0 7 2 9 | 0 7 2 9 | 0 6 6 9 | 0 7 3 1 | 0 7 3 1 | 0 5 1 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 | 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 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | X | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Inflammation, Chronic Active | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| Pelvis, Inflammation, Chronic Active | 1 | 2 | 2 | | | 1 | 1 | | | 2 | 1 | | | 1 | 1 | 1 | | | 1 | | | | 1 |
| Pelvis, Mineralization | 1 | 2 | | 1 | 1 | | 1 | 1 | | 1 | | | | 1 | | 1 | 1 | | | | 2 | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE | 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 | |
| 0 MG/KG | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 49 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Periesophageal Tissue, Inflammation, Granulomatous, Chronic | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Intestine Large, Cecum | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 46 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 48 |
| Intestine Large, Rectum | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Duodenum Epithelium, Vacuolization Cytoplasmic | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 46 |
| Intestine Small, Ileum | + | + | + | + | + | A | A | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | 45 |
| Intestine Small, Jejunum Epithelium, Vacuolization Cytoplasmic | + | + | + | + | + | A | A | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | 45 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Basophilic Focus | | X | | X | | | | | | | | | | | | | | | | | | X | 8 |
| Basophilic Focus, Multiple | | | | | X | | | | | | | | | X | X | | | X | | | | | 8 |
| Clear Cell Focus | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Clear Cell Focus, Multiple | X | X | X | X | X | | | X | X | X | | | | X | X | X | X | X | | X | X | X | 38 |
| Congestion | | | | | | | | 1 | | | | 1 | | | | 1 | X | X | | | | | 4 1.0 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Fatty Change | 1 | | 1 | 1 | 1 | 1 | 3 | 2 | 1 | | 1 | | | 1 | 1 | 2 | | | 1 | 1 | 1 | 1 | 32 1.5 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hemorrhage | | | | | | | | | | | 2 | | | | | | | | | | | | 2 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | |
| ANIMAL ID | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | | |
| Inflammation, Chronic Mixed Cell Focus | | X | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 16 1.1 |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 4 1.3 |
| Mesentery Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 12 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | 9 1.7 |
| Pancreas Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 46 |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Salivary Glands Duct, Parotid Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Parotid Gland, Atrophy | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Parotid Gland, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Parotid Gland, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Parotid Gland, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | 4 1.5 |
| Stomach, Forestomach Erosion | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | 9 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | 003333 | |
| Ulcer Epithelium, Hyperplasia | | | | | | | | 4 | | | | | | | | | | 3 | | | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | 8 | |
| Stomach, Glandular Mineralization | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | 1 | | | | | | | | | | | | | | | | | | | 48 | |
| | | | | | | | | | | | | | | | | | | | | | | 7 | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 1 | 2 | 1 | | 2 | 2 | 2 | 3 | 1 | | 1 | | | | 1 | | 2 | 2 | | 2 | 1 | 2 | |
| Epicardium, Inflammation, Granulomatous | | | | | | | | | | | | | | 4 | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | 33 | |
| | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | 13 | |
| | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | 13 | |
| | | | | | | | | | | | | | | | | | | | | | | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | 12 | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | 1 | | | 1 | | | 1 | | | | | | | | | 1 | | | 1 | 1 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hyperplasia, Focal | | | 2 | 1 | | | | | | 1 | | | | | | 1 | 1 | 1 | | | | 1 | |
| Hypertrophy, Focal | | | | 1 | 1 | | | | 1 | 1 | | | | | | 1 | | | | | | 1 | |
| Vacuolization Cytoplasmic | | | 1 | | 1 | | | | | | | | | | | | | | | | | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | 1 | | | | | | | | | 1 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | |
| Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | 3 | |
| | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | 3 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 7 4 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 | |
| Pars Distalis, Cyst | | | | | X | | | | X | | X | | | | | | | | | | | | | | 3 | |
| Pars Distalis, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Hyperplasia, Focal | | | | | 1 | | | | | | 1 | | | | | | | | | 1 | 1 | | 2 | 15 1.3 | | |
| Pars Intermedia, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Pars Intermedia, Hyperplasia, Focal | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Pars Nervosa, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Thyroid Gland | + | + | + | + | + | + | A | A | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | 45 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| C-cell, Hyperplasia | 2 | 2 | 2 | 1 | 2 | 2 | | | 2 | 2 | 2 | | 1 | | 1 | | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 44 1.5 | |
| Follicle, Hypertrophy | | | | | | | | | | | | | | | | | | | 2 | | | | | | 1 2.0 | |
| Follicular Cell, Hyperplasia | 2 | 1 | 1 | | | | | | 1 | | 1 | | | | | | | | | | | | | | 8 1.1 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | + | | | | | | | | | | | | | | | | 3 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 4 4.0 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Inflammation, Granulomatous, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Duct, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 |
| ANIMAL ID | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic Active | | | 1 | | | | 1 | | | 2 | 1 | | 1 | | | 1 | | | | 1 | | 2 2 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | 2 2 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 3 1 3.0 |
| Mediastinal, Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | 3 1 3.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 4 2.0 |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 1 2 1.0 |
| Spleen | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Fibrosis, Focal | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | 1 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | |
| ANIMAL ID | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | 000333 | | |
| Hemorrhage, Focal Pigmentation | | | | | | | 1 | | | | | 2 | | | | | | 1 | | 1 | 2 | 12 1.3 | |
| Thymus Atrophy Hemorrhage | + | + | + | + | + | + | A | A | + | + | + | + | + | M | + | A | + | + | + | + | + | 45 14 2.2 1 2.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Pigmentation, Hemosiderin Duct, Dilatation | + | + | + | M | + | + | I | + | + | M | + | M | + | + | + | I | M | + | + | M | + | + | 33 3 1.0 4 1.5 |
| Skin Cyst Epithelial Inclusion Inflammation, Acute Inflammation, Chronic Inflammation, Chronic Active Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 1 4.0 1 2.0 1 1.0 1 3.0 1 2.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | 1 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Brain Compression | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 10 2.3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 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 3 9 | 0 7 1 1 |
| 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 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | + | 2 | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | + | 2 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Infiltration Cellular, Histiocyte | 1 | | 1 | | | 1 | | 1 | | 1 | 1 | | | | | | 1 | 1 | 1 | | 1 | | 1 | | 24 | 1.0 |
| Inflammation, Granulomatous, Multifocal | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Inflammation, Acute | | | | | | | 3 | | | | | | | | | | 1 | | | | | | | | 2 | 2.0 |
| Inflammation, Chronic | | | 1 | | | | | | | | 1 | | 1 | | | | | | | | | | 1 | | 4 | 1.0 |
| Alveolar Epithelium, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Mediastinum, Inflammation, Granulomatous | | | | | | | | | | | | 4 | | | | | | | | | | | | | 1 | 4.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Fungus | | | | | | | X | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Inflammation, Acute | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Squamous Epithelium, Cyst | | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Inflammation, Acute | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | 1.0 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Eye | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| Retina, Atrophy | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | 6 | 2.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hyperplasia, Focal | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nephropathy | 1 | 2 | 1 | | 1 | | 1 | 1 | 2 | 1 | | | | | | 1 | 1 | 1 | | | 3 | | | | | | | | | | | | | | | | 37 1.2 | |
| Pelvis, Inflammation, Chronic Active | | | 1 | 1 | | | | | 1 | | 1 | | | | | 2 | 2 | | | | 3 | 2 | | | | | | | | | | | | | | | 22 1.4 | |
| Pelvis, Mineralization | | | 1 | 2 | | | | 2 | 1 | | | | | | 1 | | | | | 2 | | | | | | | | | | | | | | | 2 | | 18 1.3 | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | | | |
| | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | 5 | 7 | | |
| 3 MG/KG | 3 | 8 | 3 | 4 | 3 | 3 | 5 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | | | | |
| | 0 | 2 | 0 | 5 | 1 | 1 | 8 | 0 | 0 | 2 | 2 | 7 | 1 | 1 | 1 | 2 | 2 | 2 | 0 | 0 | 1 | 5 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 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 | | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | |
| Muscularis, Degeneration | | | | | | | | | | | | | | | | | | | | | | | |
| Muscularis, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | + | + | A | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | A | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | A | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Basophilic Focus | | | | | | X | | | | | X | | | | | | | X | | | | | |
| Basophilic Focus, Multiple | X | | X | | | | | | | X | | X | X | X | X | X | X | | | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus, Multiple | X | | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | |
| Congestion | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | X | | | X | | | | | | | | | | | |
| Eosinophilic Focus, Multiple | | | | | | | | | | | | | | | | X | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 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 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Fatty Change | | 4 | | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Chronic | | | | | | | | | | 1 | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | X | | | | | | | | | | X | |
| Mixed Cell Focus, Multiple | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | 1 | | | | | 1 | | | 1 | | 1 | | 1 | | | 1 | | 1 | 1 | |
| Hepatocyte, Hypertrophy | | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 3 | |
| Hepatocyte, Necrosis | | | | | | | | 3 | | | | | | | | | | | 1 | | |
| Mesentery | | | | + | | | | | | | | | | | | | | | | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | 2 | | | | | | | | | | | | | | | | 1 | |
| Pancreas | | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | 1 | | | | | 1 | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | 1 | |
| Duct, Cyst | | | | | | | | | | | | | | | 4 | | | | | | |
| Salivary Glands | | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| Duct, Parotid Gland, Cyst | | | | | | | | | | | | | | | | | | | | | |
| Duct, Parotid Gland, Inflammation, Acute | | | | | | | | | | 1 | | | | | | | | | | | |
| Parotid Gland, Atrophy | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | 1 | |
| Parotid Gland, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | |
| Submandibular Gland, Inflammation, Chronic | | | | 2 | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | 2 | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|-------|------|
| | 0730 | 0682 | 0730 | 0674 | 0773 | 0677 | 0776 | 0677 | 0777 | 0677 | 0777 | 0575 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | | 0575 | 0777 | 0474 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00061 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00062 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00063 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00064 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00065 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00066 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00067 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00068 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00069 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00070 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00071 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00072 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00073 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00074 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00075 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00076 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00077 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00078 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00079 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00080 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00081 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00082 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00083 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00084 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00085 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00086 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00087 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00088 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00089 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00090 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hyperkeratosis | 2 | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 3 | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Multifocal, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | 2 | | | 1 | 2 | 2 | | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | 2 | 1 | |
| Endocardium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | 1 | 1 | | | | | | 1 | 1 | 1 | | | | | 1 | 1 | | | | | | | | | |
| Hyperplasia, Focal | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | | | |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|
| | 0730 | 0682 | 0730 | 0664 | 0773 | 0676 | 0777 | 0676 | 0777 | 0677 | 0777 | 0575 | 0777 | 0677 | 0777 | 0677 | 0777 | 0373 | 0373 | 0573 | | | 0777 | 0677 | 0777 | 0575 | 0777 | 0474 |
| | 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 | 0000 | | |
| | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | |

Vacuolization Cytoplasmic

1 1 1

Adrenal Medulla
Infiltration Cellular, Eosinophil

+ + + A +

Islets, Pancreatic

+ + + A +

Parathyroid Gland
Cyst
Hyperplasia, Focal

+ + + + + + + + + + + + + + M + + + + + + + + + + + +
3

Pituitary Gland
Pars Distalis, Cyst
Pars Distalis, Hyperplasia, Focal

+
X
1 2

Thyroid Gland
Cyst
C-cell, Hyperplasia
Follicle, Hypertrophy
Follicular Cell, Hyperplasia

+ + + A + + + + + + + + A + + + + + + + + + + + + + + + + +
1 1 3 1 2 1 2 3 1 2 3 1 2 2 2 1 2 1 1 2 2
2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1
2 1

GENERAL BODY SYSTEM

Tissue NOS
Fat, Necrosis

+ +
2

GENITAL SYSTEM

Epididymis
Bilateral, Granuloma Sperm

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0730 | 0738 | 0732 | 0734 | 0733 | 0735 | 0736 | 0737 | 0737 | 0737 | 0737 | 0735 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | | 0737 | 0735 | 0737 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | |
| | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Preputial Gland Inflammation, Chronic Inflammation, Chronic Active Duct, Ectasia | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 1 | | | | | 1 | | | | | | | | | | 1 | | | | | |
| Prostate Inflammation, Chronic Active Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | | 1 | 1 | 1 | | 2 | | | | | | 3 | | | | | 1 | | 1 | 2 | | | |
| Seminal Vesicle Inflammation, Acute Inflammation, Chronic Active | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Testes Degeneration Interstitial Cell, Hyperplasia, Multifocal | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 2 | | 2 | | | | | | | | | | 2 | | | | | | 3 | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow Hyperplasia | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node Ectasia Mediastinal, Congestion Mediastinal, Hemorrhage Mediastinal, Pigmentation, Hemosiderin Renal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | + |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mandibular | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

Epidermis, Hyperplasia

1

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle

NERVOUS SYSTEM

Brain

+ +

Compression

1 3 1 1 1

Peripheral Nerve

Spinal Cord

RESPIRATORY SYSTEM

Lung

+ +

Infiltration Cellular, Histiocyte Inflammation, Acute

1 1

Alveolar Epithelium, Hyperplasia

1

Vein, Mineralization

1

Nose

+ + + A +

Trachea

+ + + A +

SPECIAL SENSES SYSTEM

Eye

+ + + A +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|-----------|--------------------|
| | 0730 | 0682 | 0730 | 0674 | 0773 | 0676 | 0776 | 0677 | 0777 | 0678 | 0779 | 0680 | 0780 | 0682 | 0782 | 0683 | 0783 | 0684 | 0784 | 0685 | 0785 | 0686 | 0786 | | | |
| Retina, Atrophy | | | | | | | | 1 | | 2 | | | 2 | | | | | | | | 2 | | | | | |
| Harderian Gland | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hydronephrosis | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Nephropathy | 1 | | | | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | 1 | | | 2 | 1 | 1 | 1 | 1 | | |
| Pelvis, Inflammation, Chronic Active | | | 2 | 1 | | 1 | | | 2 | | | | 1 | 1 | | | | | 1 | 1 | | 1 | | | | |
| Pelvis, Mineralization | | | 1 | 1 | | | | | | | | 1 | | | | | | | | | 1 | | 1 | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Urinary Bladder | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
| | 0731 | 0735 | 0738 | 0739 | 0740 | 0742 | 0743 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | 0755 | 0756 | 0757 | 0758 | 0759 | 0760 | | |
| 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 | 50 | |
| 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 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperkeratosis | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 2.0 | |
| Muscularis, Degeneration | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 | |
| Muscularis, Hemorrhage | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | A | + | 43 |
| Inflammation, Chronic | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + | 45 |
| Inflammation, Chronic | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 | |
| 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 |
| Ulcer | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | X | 4 | |
| Basophilic Focus, Multiple | X | | | | | | | | X | | X | | X | | | X | X | | X | X | | | | 17 | |
| Clear Cell Focus | | | | | | | | | | | | | X | | | | | | | | | | | 1 | |
| Clear Cell Focus, Multiple | X | | X | X | X | X | | X | X | | X | X | | X | X | | X | X | | X | X | | X | 36 | |
| Congestion | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | 3 1.0 | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Eosinophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | | | | |
| ANIMAL ID | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 | 0101 | 0102 | 0103 | 0104 | 0105 | | | | |
| Fatty Change | 1 | 4 | 1 | | 1 | 2 | 3 | 2 | 1 | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 37 | 1.5 | | |
| Hepatodiaphragmatic Nodule | | | | X | | | | | | | | | | | | | | | | | 1 | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | 1 | | | 2 | 1.0 | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Mixed Cell Focus, Multiple | | | | | | | | | | | | | | | X | | | | | | 1 | | | |
| Bile Duct, Hyperplasia | | | | | 1 | | 1 | | | | | | | 1 | | | 1 | 1 | 1 | | 16 | 1.0 | | |
| Hepatocyte, Hypertrophy | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 44 | 2.0 | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | | |
| Mesentery | | | + | + | | | | | | | | | | | | | | | + | + | 6 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 | | |
| Fat, Necrosis | | 2 | | 2 | | | | | | | | | | | | | | | 1 | | 5 | 1.6 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | 47 | |
| Atrophy | | | | | | | | | | | | 1 | | | | | | 1 | | | 5 | 1.0 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Inflammation, Acute | | | | | | | | | | | | 1 | | | | | | | | | 1 | 1.0 | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Duct, Parotid Gland, Cyst | | | | | | | | | | | | 2 | | | | | | | | | 1 | 2.0 | | |
| Duct, Parotid Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Parotid Gland, Atrophy | | | | 1 | | | | | | | | | | | | | | | | 1 | 2 | 1.0 | | |
| Parotid Gland, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Parotid Gland, Vacuolization Cytoplasmic | | 4 | | | | | 1 | | | | 1 | | | | | | | | | | 4 | 2.0 | | |
| Submandibular Gland, Inflammation, Chronic | | | | 1 | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Erosion | | 1 | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|--|---|--|--|---|-----|--|
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 2 | | | 5 | 1.8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | 2 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 | | | 6 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + | 46 | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 | |
| Inflammation, Multifocal, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Infiltration Cellular | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--|--|---|--|--|---|-----|--|--|---|---|---|---|---|---|--|---|---|-----|---|--|--|----|-----|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | | | | | | | | | | | | |
| Heart | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | 1 | 1 | | | 2 | 1 | 1 | 1 | 1 | | | 1 | | | 1 | | | 32 | 1.4 |
| Endocardium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 | | | | | |
| Pericardium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--|--|---|--|--|---|---|---|---|--|--|--|--|---|---|--|----|-----|-----|
| Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 3 | 1 | 1 | | | | | | 1 | | | 17 | 1.1 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 | | | | | | | | | 10 | 1.2 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | | | 11 | 1.1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0740 | 0743 | 0745 | 0752 | 0753 | 0773 | 0777 | 0779 | 0782 | 0784 | 0789 | 0792 | 0797 | 0799 | 0800 | 0803 | 0806 | 0807 | 0811 | 0813 | 0818 | 0820 | |
| 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 | |
| Vacuolization Cytoplasmic | 1 | | | | | | 3 | | 1 | 1 | | | | 1 | | | | | | | | | | 1 | 9 1.2 |
| Adrenal Medulla Infiltration Cellular, Eosinophil | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 48 1 3.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Parathyroid Gland Cyst Hyperplasia, Focal | + | + | + | + | + | 1 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | + | 49 2 1.0 1 3.0 | |
| Pituitary Gland Pars Distalis, Cyst Pars Distalis, Hyperplasia, Focal | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 49 3 11 1.1 | |
| Thyroid Gland Cyst C-cell, Hyperplasia Follicle, Hypertrophy Follicular Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | 45 1 41 1.7 26 1.3 5 1.6 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 1 2.0 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis Bilateral, Granuloma Sperm | | | | | | | | | | | | | | | | | | | | | | | | | 50 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 3 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 | 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 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.5 |
| Duct, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 20 1.3 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | M | + | + | + | + | + | A | + | 46 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 11 2.8 |
| Interstitial Cell, Hyperplasia, Multifocal | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mediastinal, Congestion | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Mediastinal, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | | | | | |
| ANIMAL ID | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | 00101 | 00102 | 00103 | 00104 | 00105 | 00106 | 00107 | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1 | 2 | 7 | 1.4 |
| Hemorrhage | | | | 2 | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + | 46 | | | |
| Hematopoietic Cell Proliferation | | | 2 | 1 | 1 | 2 | | 1 | 1 | 1 | | 1 | | 2 | 1 | 1 | | 1 | 1 | | | | 2 | | 30 | 1.2 | | |
| Pigmentation | | 1 | | | 1 | 1 | | | | | | | | 1 | | | | | | | 1 | | | | 11 | 1.1 | | |
| Thymus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | | |
| Atrophy | | 1 | | | | | 3 | | | 4 | | | | 3 | 2 | | | | | | | 2 | | 11 | 2.5 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 3 | | 3 | 2.3 | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Mammary Gland | + | M | + | + | + | + | + | M | + | + | + | M | + | + | + | M | + | + | M | + | + | + | + | 38 | |
| Galactocele | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pigmentation, Hemosiderin | | | | 1 | | | | | | 1 | | | 1 | | | | | | | | 1 | 1 | | 9 | 1.0 |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Cyst Epithelial Inclusion | | | | X | | | | | | | | X | | | | | | | | X | | | | 3 | |
| Fibrosis | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | 2.0 |
| Hyperkeratosis | | | | | | | | | | | | | | | 2 | | | | | | | 2 | | 3 | 2.0 |
| Inflammation, Acute | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | 3 | | | | | | | 1 | | 3 | 2.3 |
| Ulcer | | | | | | | | | | | | | | | 2 | | | | | | | | | 2 | 2.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 3 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 | 0731 | 0731 | 0731 | |
| 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 | 4 |

Epidermis, Hyperplasia

2 2

3

4 2.0

MUSCULOSKELETAL SYSTEM

Bone + 50

Skeletal Muscle + + 2

NERVOUS SYSTEM

Brain + 50
 Compression 2 1 2 2 9 1.6

Peripheral Nerve + 1

Spinal Cord + 1

RESPIRATORY SYSTEM

Lung + 50
 Infiltration Cellular, Histiocyte 1 24 1.0
 Inflammation, Acute 1 1.0
 Alveolar Epithelium, Hyperplasia 1 3 1.0
 Vein, Mineralization 1 1.0

Nose + 49

Trachea + + + + + + + + + + + + A + + + A + + + + + A + + 46

SPECIAL SENSES SYSTEM

Eye + + + + + + + + + + + + A + + + A + + + + + A + + 46

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| | 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 | 4 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 7 | 7 | 2 | 7 | 7 | 5 | 6 | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 MG/KG | 3 | 8 | 3 | 3 | 3 | 9 | 0 | 3 | 2 | 4 | 2 | 2 | 0 | 2 | 3 | 3 | 0 | 3 | 3 | 6 | 3 | 3 | 8 | 4 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 5 | 0 | 0 | 0 | 2 | 1 | 2 | 9 | 9 | 9 | 9 | 2 | 9 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 8 | 7 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2 | 2 | 8 | 1.9 | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + | 46 | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 3 | | | | | | | | 1 | | | | | | | | | | | 5 | 1.4 | | |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 3 | 1 | 1 | 1 | 1 | | | | | | 1 | 1 | | 2 | 2 | | 1 | 2 | | 3 | 1 | 35 | 1.3 | | |
| Pelvis, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | | 1 | | | | | | | | | 2 | | | | | | | | | | | | 14 | 1.2 | |
| Pelvis, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 1.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 48 | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0 | 0 | 0 | 0 | ANIMAL ID | |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
| | | 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 | 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 | 2 | | | |
| | | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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 | | males (cont...) | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum Inflammation, Focal, Chronic Active Peyer's Patch, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | |
| | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum Peyer's Patch, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Basophilic Focus, Multiple | | | | X | | | | | | X | | | | | | | | | | | | X | | | | | |
| Cholangiofibrosis | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus, Multiple | | | X | X | X | | X | X | | X | X | X | X | | X | | X | | X | X | X | X | X | X | X | X | |
| Degeneration, Cystic | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | X | | | | X | X | | X | | | | X | | | | | |
| Eosinophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change | 3 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0 | males (cont...) | |
| | | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 4 | 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 |
| | | 5 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 9 | 0 | 3 | 0 | 1 | 1 | 1 | 1 | | 1 |
| | 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 | | |
| | 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 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Inflammation, Chronic Active Ulcer Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular Cyst Inflammation, Acute Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 1 | 1 | | 1 | 2 | | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex Angiectasis Hyperplasia, Focal Hypertrophy, Focal Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | 3 | 1 | | | | 1 | | 1 | | | | 1 | 1 | 1 | | 1 | | | | | | | | |
| | | | 1 | 1 | | 1 | | | | | | 2 | | | | | | | 1 | 2 | | | 1 | | |
| | | | | | 1 | | | | 1 | 1 | | | | | | 1 | | | | | | | 1 | | |
| | | | | | 1 | 1 | | | 1 | | | | | | 1 | | | | | 1 | | | | 2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland Hyperplasia, Focal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland Pars Distalis, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | |
| 15 MG/KG | 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 |
| | 9 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 5 | 8 | 3 | 3 | 3 | 3 | 3 | 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 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 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 | 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 |

Pars Distalis, Cyst, Multiple
Pars Distalis, Hyperplasia, Focal
Pars Intermedia, Cyst
Pars Intermedia, Hyperplasia, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|---|--|--|---|--|---|---|--|--|--|--|--|---|--|--|---|---|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | 2 | | | 1 | | 1 | 1 | | | | | | 1 | | | 1 | 1 | | |
| | | | | | | | X | | | | | | | | | | | | | | | | | | |

Thyroid Gland
Mineralization
C-cell, Hyperplasia
Follicle, Hypertrophy
Follicular Cell, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | A | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + |
| | 1 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | | 2 | 2 | 1 | | 2 | 3 | |
| | | | 1 | | 1 | 1 | 2 | | | 1 | | | 1 | 1 | 1 | 2 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | | | | | | 1 | | 2 | | | | | | | | | | | | |

GENERAL BODY SYSTEM

Tissue NOS
Fibrosis

| |
|---|
| + |
| 2 |

GENITAL SYSTEM

Epididymis

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

Preputial Gland
Inflammation, Chronic Active
Duct, Ectasia

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Prostate
Inflammation, Chronic Active
Mineralization

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Seminal Vesicle
Inflammation, Chronic Active

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males (cont...) |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| | 0595 | 0730 | 0730 | 0730 | 0730 | 0752 | 0777 | 0777 | 0622 | 0767 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0773 | 0755 | 0488 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| ANIMAL ID | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration | | 3 | 2 | | 2 | | | 4 | | 3 | | | | 2 | 4 | | | | | 4 | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Mineralization | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | + | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | | | | 1 | 2 | 1 | | | 2 | | | 1 | | | | | | | | 1 | | | | |
| Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | 2 | | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | 1 | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | 1 | | 1 | | | 1 | | 1 | 1 | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | 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 1 | 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 1 | 0 7 3 1 | | | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 |

Pigmentation 1 1 1 1 2 1 1 1
 Lymphoid Follicle, Atrophy 2

Thymus +
 Atrophy 1 4 2 2 1
 Ectopic Parathyroid Gland 1 1
 Hemorrhage 1

INTEGUMENTARY SYSTEM

Mammary Gland + + + + + + + + + M M + + + M M + M M + + + + +
 Cyst
 Hyperplasia 1
 Pigmentation, Hemosiderin 2
 Duct, Dilatation 2

Skin +
 Cyst Epithelial Inclusion 2
 Inflammation, Granulomatous 3

MUSCULOSKELETAL SYSTEM

Bone +
 Skeletal Muscle + + +
 Fibrosis
 Inflammation, Chronic Active 2

NERVOUS SYSTEM

Brain +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
 X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
 I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males (cont...) | | | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|
| | 0595 | 0730 | 0730 | 0730 | 0730 | 0752 | 0777 | 0777 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0755 | 0744 | 0777 | 0777 | | 0777 | 0777 | 0777 |
| ANIMAL ID | 0011 | 0011 | 0011 | 0011 | 0011 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 |

Compression
Meninges, Hyperplasia, Granulocytic

3 3 3 3 3

Peripheral Nerve

+ +

Spinal Cord

+ +

RESPIRATORY SYSTEM

Lung
Hemorrhage
Infiltration Cellular, Histiocyte
Mineralization
Alveolar Epithelium, Hyperplasia

+
1
1

Nose
Fungus
Inflammation, Acute
Inflammation, Chronic Active

+
2
2

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye
Retina, Atrophy

+
2 2 2 2 2 2

Harderian Gland
Atrophy

+ +

Lacrimal Gland

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | |
| | | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 4 | 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 |
| 15 MG/KG | ANIMAL ID | 5 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 9 | 0 | 3 | 0 | 1 | 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 | |
| | | 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 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | | males (cont...) | | |

Inflammation, Chronic
Karyomegaly

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bacterium | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | X | X | | | | | | | | | | | | |
| Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | 3 | 3 | | | | | 3 | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | 1 | | 1 | 1 | | 1 | | 1 | | 1 | 2 | 1 | | 2 | | 1 | 1 | | 2 | 1 | | 1 |
| Pelvis, Inflammation, Chronic Active | 1 | | | | | 1 | | 2 | | | 2 | | | 2 | | | | | 1 | | | | |
| Pelvis, Mineralization | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|----------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|
| | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | 07 |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 |
| | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 49 |
| | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 50 |
| | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 49 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|-------|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Intestine Small, Ileum Inflammation, Focal, Chronic Active Peyer's Patch, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 2 | 1 2.0 | 1 2.0 |
| Intestine Small, Jejunum Peyer's Patch, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 1.0 | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Angiectasis | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Basophilic Focus | | | | X | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Basophilic Focus, Multiple | X | X | | X | | | | | | | | | | | | | | X | | | | X | | 8 | | | |
| Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Clear Cell Focus, Multiple | X | X | | X | X | X | X | | | X | X | X | | X | X | | X | X | X | X | | X | X | 35 | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Eosinophilic Focus | | | | | | | | | | | | X | X | | | | X | X | | | | X | | 10 | | | |
| Eosinophilic Focus, Multiple | | | | | X | | | | X | | | | | | | | | | | | | | | 2 | | | |
| Fatty Change | 1 | 2 | 1 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 4 | 1 | 2 | 1 | 1 | 1 | 2 | 4 | 48 1.8 | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 1.0 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 05 32 | 04 36 | 02 39 | 02 39 | 02 39 | 02 39 | 02 39 | 02 39 | 02 39 | 02 39 | 02 39 | 02 39 | 02 39 | 02 39 | | 02 39 | |
| ANIMAL ID | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150 | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | |
| Hemorrhage | | | | | | | 1 | | | | | | | | | | | | | | | | 1 1.0 |
| Hyperplasia, Nodular | | | | | | | | | | | | | | | | | | | | | 1 | | 3 1.7 |
| Mixed Cell Focus, Multiple Pigmentation | | | | | | | | | | | | | | | | X | | | | | | | 1 2.0 |
| Artery, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Bile Duct, Hyperplasia | 1 | | | 1 | | | | | | 2 | | | | | | | | 1 | 1 | | | | 16 1.1 |
| Hepatocyte, Hypertrophy | 4 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 50 3.0 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | 13 |
| Inflammation, Chronic | | | | + | | + | | | | | | | | | | | | | | | | | 1 2.0 |
| Fat, Necrosis | | | | 2 | | 2 | | | | | | | | | | | | 2 | | | | | 11 1.8 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Atrophy | | | | + | | | | | | | | | | | | | | | | | | | 7 1.0 |
| Basophilic Focus | | | | 1 | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Duct, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Duct, Parotid Gland, Cyst | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Parotid Gland, Atrophy | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Parotid Gland, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Parotid Gland, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | 7 1.9 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | 5 2.2 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/12/2014
Time Report Requested: 10:27:34
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
|------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------------|---------------|----------|
| DAY ON TEST | | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | | | | |
| WISTAR HAN RATS MALE | | 2 | 2 | 2 | 2 | 3 | 5 | 3 | 8 | 2 | 2 | 3 | 3 | 3 | 3 | 9 | 3 | 2 | 2 | 2 | 3 | 7 | 1 | 3 | 3 | | | |
| 15 MG/KG | | 9 | 9 | 9 | 9 | 2 | 3 | 6 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 9 | 1 | 9 | 9 | 1 | 6 | 7 | 1 | 1 | | | |
| 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 | | | |
| | | 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 | 0 | * TOTALS | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 2.0 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 3 1.3 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | 3 | | | | | | | | | 3 | | 5 2.8 | | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cyst | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation, Acute | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 1.0 | |
| Mineralization | | | | | | | | | | | 1 | 1 | | | 1 | | | | | | | | | | | | 5 1.0 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cardiomyopathy | | 1 | 1 | 1 | 2 | 2 | | 2 | | | 1 | | 1 | 2 | 1 | 2 | | 2 | 2 | | 1 | | 1 | 2 | 1 | | 34 1.4 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Angiectasis | | | | 2 | 1 | | 1 | | | | | | 1 | | | | 1 | 2 | | | | | 1 | | | | 15 1.3 | |
| Hyperplasia, Focal | | 1 | | 1 | 2 | 1 | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | | | | | 18 1.2 | |
| Hypertrophy, Focal | | | 1 | | | | 1 | | | | | | | | | | | | | | | | | | | | 7 1.0 | |
| Vacuolization Cytoplasmic | | | | | | 1 | 1 | | | | | | | | | 1 | 1 | | | | | | | | | | 10 1.1 | |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia, Focal | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | 2 1.0 | |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | X | | | | | | X | | | | | 4 |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0729 | 0729 | 0729 | |
| ANIMAL ID | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150 | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Degeneration | | | | | | | | | | 1 | | | | | 2 | | | | | | 3 | | | | 3 | 12 | 2.8 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Interstitial Cell, Hyperplasia, Focal | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | 1.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node | + | | | | | | | | | + | + | | | + | | | | | | | | | | | | 5 | |
| Mediastinal, Ectasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Mediastinal, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ectasia | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 8 | 1.3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Fibrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Hematopoietic Cell Proliferation | 1 | 1 | | | | 1 | 1 | 2 | | 4 | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | | 1 | | | | 1 | 22 | 1.2 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
 X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
 I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 15 MG/KG | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|----------------------------------|-------------|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 04 | 02 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | | 04 | 06 | 07 | 07 |
| | | 29 | 29 | 29 | 29 | 29 | 32 | 53 | 36 | 89 | 29 | 29 | 33 | 33 | 33 | 33 | 99 | 31 | 99 | 99 | 99 | 99 | 31 | | 76 | 17 | 33 | 31 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|-----|-----|
| Pigmentation | | | | 1 | | | | | 1 | | | | 1 | 1 | | | 2 | | | 1 | | | 1 | | | | 17 | 1.1 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | | 49 | | |
| Atrophy | | | | | | | 2 | | | | | | 1 | | 2 | | 3 | | | | | | 1 | | | | 15 | 1.9 | |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Mammary Gland | M | M | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 39 | | | |
| Cyst | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | 1.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | 1 | | | | | | | 3 | 1.3 | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 2 | 1.5 |
| Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | + | | | | | | | | | | | 4 | | |
| Fibrosis | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 1 | 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|---------------|----|
| | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 04 | 02 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 04 | | | 06 | 07 | 07 |
| | 29 | 29 | 29 | 29 | 29 | 23 | 25 | 33 | 83 | 22 | 23 | 33 | 33 | 33 | 33 | 99 | 33 | 22 | 22 | 22 | | | 37 | 11 | 33 |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | |
| | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 66 | |
| | 67 | 78 | | | | | | | | | | | | | | | | | | | | | | | |
| Compression | | | | 1 | | | 2 | | | 2 | | | | 3 | | | | | 3 | | | | | 10 2.6 | |
| Meninges, Hyperplasia, Granulocytic | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Peripheral Nerve | | | | | | | | + | | | | | | | | | | | | | | | | 3 | |
| Spinal Cord | | | | | | | | + | | | | | | | | | | | | | | | | 3 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 | |
| Infiltration Cellular, Histiocyte | 1 | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | | | 1 | | | 1 | | 1 | 1 | 1 | | 32 1.0 | |
| Mineralization | | | | | | | | | | | | | | | 1 | | | | | | | | 1 | 2 1.0 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fungus | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation, Acute | | | | | | | | | | | | | | | 2 | | | | | | | | | 2 2.0 | |
| Inflammation, Chronic Active | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 1.0 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | 2 | | 2 | | | 8 2.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| | 079 | 079 | 079 | 079 | 079 | 075 | 074 | 072 | 072 | 077 | 077 | 077 | 077 | 077 | 077 | 075 | 077 | 077 | 077 | 077 | 074 | 076 | 077 | 077 | |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | |
| | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Karyomegaly | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Bacterium | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | 8 2.9 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Nephropathy | 1 | 3 | | 2 | 1 | 1 | | | | 2 | | 2 | | | 1 | | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 32 1.3 |
| Pelvis, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 8 1.5 |
| Pelvis, Mineralization | | | | 1 | | | | | | | | | | | | | | | | | | | | 5 1.0 |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|
| WISTAR HAN RATS MALE | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0480 | 0730 | 0730 | 0730 | 0730 | 0750 | 0640 | 0660 | 0460 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0670 | 0570 | 0440 | 0770 | 0770 | | 0660 | 0660 | 0660 | 0760 |
| 50 MG/KG | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males (cont...) | | | | |
| | | 00161 | 00163 | 00164 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | 00174 | 00175 | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | | 00183 | 00184 | 00186 | 00187 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Acute | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Acute | | | | | | | | | | | 2 | | | | | | | | | | | 1 | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | A | + | + | + | + | A | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus, Multiple | | | | | | | | | | | | | X | X | | | | | | | | | | X | | X | |
| Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus, Multiple | | X | X | X | X | | | | | | | X | X | | X | X | X | | | | | | | X | | X | X |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | X | | | | | | X | | | | | | X | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 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 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 | | | |
| Eosinophilic Focus, Multiple | | | | X | X | X | | | | | | | | X | | | | | | | | | | X | | | |
| Fatty Change | 3 | 2 | 2 | 4 | 2 | 4 | 4 | 3 | 3 | | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 1 | 1 | 3 | 2 | 4 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | 1 | | 1 | 1 | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus, Multiple | | | | | | | | | | | | | | | | | X | | | | X | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | 1 | | | |
| Artery, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Bile Duct, Cyst | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | 1 | 2 | | | | | 2 | 2 | 1 | 1 | 1 | | 1 | | | | |
| Hepatocyte, Hypertrophy | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | 1 | | | | | 2 | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | | | | |
| Mesentery | + | | | + | + | | | | | | | | | | | | | | | + | | + | | + | | | |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | 2 | 2 | | | | | | | | | | | | | | | 1 | | 3 | | 3 | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus, Multiple | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Duct, Parotid Gland, Inflammation, Acute | | | | | | | 2 | | | | | | | | 1 | | | | | 1 | | | | | | | |
| Duct, Submandibular Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Atrophy | | | | | | | 2 | | | 1 | | 2 | | | 1 | | | | | 2 | 2 | 1 | 1 | 1 | | | |
| Parotid Gland, Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Vacuolization Cytoplasmic | | | | 2 | | 2 | 2 | 2 | 1 | | | 1 | | | 1 | | | | | 1 | | 2 | | 2 | 1 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 0 | 0 7 3 0 | 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 5 8 | 0 6 6 9 | | | 0 7 2 9 | 0 6 1 9 | 0 7 3 2 | 0 6 7 2 | 0 7 9 | | | | | |
| Sublingual Gland, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sublingual Gland, Vacuolization Cytoplasmic | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Submandibular Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Submandibular Gland, Vacuolization Cytoplasmic | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Edema | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | 2 | | 1 | 2 | | | | | | 2 | | | | | | | 2 | 1 | 2 | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | 3 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Ulcer | | | | | | 3 | | | | | | | | | | | | | 1 | | 2 | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | 3 | | 1 | 2 | | | | | | 2 | | | | | | | 2 | 2 | 2 | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Cardiomyopathy | | 1 | 1 | | 1 | 1 | 2 | | | | | | 2 | | 1 | | 1 | 1 | | | 1 | | 2 | | 1 | 1 | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Multifocal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epicardium, Inflammation, Chronic | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | males (cont...) | |
| | | 4 | 7 | 7 | 7 | 7 | 5 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 7 | 7 | 6 | 6 | 6 | 7 | 6 | 7 | | 7 |
| | 50 MG/KG | 8 | 3 | 3 | 3 | 3 | 0 | 6 | 5 | 0 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 9 | 5 | 6 | 2 | 1 | 3 | | 3 |
| | | 0 | 0 | 0 | 0 | 1 | 5 | 6 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 5 | 4 | 9 | 9 | 8 | 8 | 9 | 9 | 2 | 2 | | |
| | 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 | |
| | | 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 | 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 | 0 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Accessory Adrenal Cortical Nodule | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | 1 | | 1 | 1 | | | | | 1 | | 1 | | 1 | 1 | | | | 1 | 1 | | | | | | | |
| Hyperplasia, Focal | | | 1 | | 1 | | | | | 1 | | 1 | 1 | 1 | | | | | 2 | 2 | | | 1 | | 2 | 1 | 1 |
| Hypertrophy, Focal | | | | | | 1 | | | | | | 1 | | | | | | | | | | 1 | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | 1 | 1 | | 1 | | | | 1 | | | | | | 1 | | | 3 | 1 | | | 1 | | 1 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | X | | | | | | | | | | | | X | | |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | 1 | | | 3 | | 2 | 1 | |
| Pars Nervosa, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| C-cell, Hyperplasia | | 2 | 2 | 2 | 1 | 1 | 1 | 2 | | 1 | 3 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | |
| Follicle, Hypertrophy | | | 2 | | | | | 1 | | 1 | | 1 | 2 | 1 | | 1 | | 1 | 2 | | | 1 | | | 2 | | |
| Follicular Cell, Hyperplasia | | | | | | | 2 | | | | | | | 1 | | | | | 2 | 2 | | | | | | | |

GENERAL BODY SYSTEM

| | |
|--|--|
| Tissue NOS | |
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | |
| + .. Tissue examined microscopically | M .. Missing tissue |
| X .. Lesion present | A .. Autolysis precludes evaluation |
| I .. Insufficient tissue | BLANK .. Not examined microscopically |
| | 1-4 .. Lesion qualified as: 1) Minimal 3) Moderate 2) Mild 4) Marked |

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/12/2014
 Time Report Requested: 10:27:34
 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 | |
| | | 4 | 7 | 7 | 7 | 7 | 5 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 7 | 6 | 6 | 6 | 7 | 6 | 7 | 7 |
| 50 MG/KG | | 8 | 3 | 3 | 3 | 3 | 0 | 6 | 5 | 0 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 9 | 5 | 6 | 2 | 1 | 3 | 3 | |
| | | 0 | 0 | 0 | 0 | 1 | 5 | 6 | 8 | 9 | 9 | 9 | 9 | 9 | 5 | 4 | 9 | 9 | 8 | 8 | 9 | 9 | 2 | 2 | |
| | 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 | |
| | | 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 | 9 | |
| | | 1 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 8 | males (cont...) |

Fibrosis

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active Duct, Ectasia | | | | 3 | | | | | | 1 | | | | | | | | | | | | 3 | |
| | 2 | 4 | 3 | | 2 | | | | | | | | | 2 | | | 1 | | | | | 1 | |
| Prostate Inflammation, Chronic Active Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 2 | 1 | 2 | | 1 | 1 | 1 | | 1 | | | 1 | | 1 | | 1 | | 2 | | |
| Seminal Vesicle Hyperplasia Inflammation, Acute Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | 2 | | | | | | | | | | | | | | | | | | |
| | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Testes Cyst Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 | | 2 | 1 | | | | | | | | | | | | | 2 | | | | | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node Mediastinal, Ectasia | | | | | | | | + | | + | | | | | | | | | + | | + | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 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 7 2 9 | 0 6 9 8 | 0 6 6 9 | 0 7 2 9 | | | 0 6 1 9 | 0 7 3 2 | 0 7 3 2 |
| | 0 | 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 6 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 1 6 1 | |

Mediastinal, Hemorrhage
 Mediastinal, Pigmentation, Hemosiderin
 Pancreatic, Inflammation, Chronic

2 2
 2

Lymph Node, Mandibular
 Ectasia
 Hemorrhage

+
 1 1

Lymph Node, Mesenteric
 Ectasia
 Hemorrhage

+
 1 1

Spleen
 Hematopoietic Cell Proliferation
 Hemorrhage, Focal
 Pigmentation
 Lymphoid Follicle, Atrophy

+
 1 2 3 1 1 1 2 1 1 1 3 1 2 1 2 2 1 1 1
 2

Thymus
 Atrophy
 Ectopic Parathyroid Gland
 Fibrosis
 Hemorrhage

+
 2 3 2 2 3 2 1 1 4 3 1 3 2 3 3
 2

INTEGUMENTARY SYSTEM

Mammary Gland
 Galactocele
 Pigmentation, Hemosiderin
 Duct, Dilatation

+ M M + + + + + + + + + M M + + + + + M + + +
 2
 1 1 1 1

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 0 | 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 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 |
| | 0 | 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 6 1 | males (cont...) |
| Skin Pigmentation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain Compression | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 1 3 3 3 3 3 3 1 1 3 3 2 2 3 3 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Infiltration Cellular, Histiocyte Inflammation, Acute | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | |
| Lung Inflammation, Chronic | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Lung Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | 1 | | | | | | | | | | 2 | | | |
| Lung Artery, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Bronchus, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nose Fungus Inflammation, Acute | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Nose Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 2 2 | |
| Nose Ulcer, Multifocal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WISTAR HAN RATS MALE 50 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 4 | 7 | 7 | 7 | 7 | 5 | 6 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 4 | 7 | 7 | 6 | 6 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 8 | 3 | 3 | 3 | 3 | 0 | 6 | 5 | 0 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 9 | 5 | 6 | 2 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 6 | 8 | 9 | 9 | 9 | 9 | 9 | 5 | 4 | 9 | 9 | 8 | 8 | 9 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 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 | |
| | 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 | 7 | 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 | 0 | | |

males
(cont...)

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|--|--|--|--|
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | 2 | | 2 | | | | | | | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Karyomegaly | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|--|---|--|---|--|---|--|--|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|--|--|--|--|--|--|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Casts Protein | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | 2 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 | | 3 | | 3 | | | | | | | | | |
| Hyperplasia, Oncocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | | 1 | | 1 | | 3 | | | | 1 | | 3 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 2 | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Mineralization | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Calculus Gross Observation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Wistar Han Rats Male 50 MG/KG | DAY ON TEST | 0480 | 0730 | 0730 | 0730 | 0551 | 0665 | 0648 | 0665 | 0769 | 0772 | 0772 | 0772 | 0772 | 0582 | 0425 | 0772 | 0772 | 0668 | 0668 | 0669 | 0722 | 0619 | 0733 | 0733 | |
| | ANIMAL ID | 0016 | 0013 | 0014 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 |
| | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | |

Inflammation, Chronic
Transitional Epithelium, Hyperplasia

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS MALE 50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0 3 5 1 | 0 7 3 1 | 0 6 7 6 | 0 6 3 9 | 0 7 0 9 | 0 4 4 8 | 0 7 2 9 | 0 7 1 9 | 0 7 2 9 | 0 5 9 9 | 0 7 3 1 | 0 7 3 1 | 0 7 3 1 | 0 6 8 2 | 0 7 3 0 | 0 7 3 1 | 0 5 9 5 | 0 6 6 6 | 0 3 1 0 | 0 7 3 1 | 0 7 3 0 | 0 5 5 8 | 0 6 1 0 | | | |
| ANIMAL ID | 0 0 1 9 1 | 0 0 1 9 2 | 0 0 1 9 4 | 0 0 1 9 5 | 0 0 1 9 6 | 0 0 1 9 8 | 0 0 1 9 9 | 0 0 0 0 0 | 0 0 2 0 1 | 0 0 2 0 2 | 0 0 2 0 3 | 0 0 2 0 4 | 0 0 2 0 5 | 0 0 2 0 6 | 0 0 2 0 7 | 0 0 2 0 9 | 0 0 2 0 0 | 0 0 2 0 1 | 0 0 2 0 2 | 0 0 2 0 3 | 0 0 2 0 4 | 0 0 2 0 6 | 0 0 2 0 8 | 0 0 2 0 9 | 0 0 2 0 0 | |
| Eosinophilic Focus, Multiple | | | X | X | X | | | | | | | | | | | | | | | | | | | | 8 | |
| Fatty Change | 3 | 3 | 2 | 3 | 2 | | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 2 | 48 2.1 |
| Fibrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic | 2 | | | | | | | | | | | | | 1 | | | | | | | | | | | | 5 1.2 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | X | | | | | 2 |
| Mixed Cell Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pigmentation | | | | | | 1 | 1 | | | | | | | | | 1 | | | | | | | | | | 6 1.0 |
| Artery, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Bile Duct, Hyperplasia | 1 | 1 | | 1 | | | 1 | | 1 | | | | | 1 | | | 2 | | | | | | 1 | | | 16 1.3 |
| Hepatocyte, Hypertrophy | 4 | 4 | 4 | 4 | 3 | 3 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 50 3.8 |
| Hepatocyte, Necrosis | 2 | | | | 1 | | | | | | | | | | | | | | | | | | | 1 | | 5 1.4 |
| Oval Cell, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Mesentery | + | + | | | | | + | | | | | | | | | | + | | | | | | | | | 10 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Fat, Necrosis | 2 | 3 | | | | | 2 | | | | | | | | | | 2 | | | | | | | | | 9 2.2 |
| Pancreas | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Duct, Parotid Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 4 1.3 |
| Duct, Submandibular Gland, Inflammation, Acute | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Parotid Gland, Atrophy | 1 | | | 1 | | | | | | | | | | | | | | | 1 | | | | | 2 | | 13 1.4 |
| Parotid Gland, Basophilic Focus | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 1.0 |
| Parotid Gland, Vacuolization Cytoplasmic | 4 | | | | | | | | | | 2 | | | | 1 | 1 | | 1 | | | | | 3 | | 17 1.7 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|-----|
| Sublingual Gland, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Sublingual Gland, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Submandibular Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Submandibular Gland, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|----|-----|-----|---|---|----|-----|
| Stomach, Forestomach | + | | | | | | | | | | | | | | | | | | | | | | | + | + | 50 | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 2.5 | | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 17 | 1.8 | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 4 | 1.3 | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 4 | 1.8 | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 2.0 | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 5 | 1.8 | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 1 | 3 | 4 | 1 | 17 | 2.1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|---|-----|-----|
| Stomach, Glandular | + | | | | | | | | | | | | | | | | | | | | | | | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|----|-----|--|---|-----|
| Heart | + | | | | | | | | | | | | | | | | | | | | | | | + | + | 50 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | | | | 29 | 1.4 | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Necrosis, Multifocal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| Epicardium, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Pericardium, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|------------|------------|------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | 1 | | | 1 | | | | | | 2 | 1 | | 1 | | | 1 | | | | | 1 | | | | | 1 | | | 1 | | 18 | 1.1 | |
| Hyperplasia, Focal | | | | | 1 | | | | | | | 1 | | | | 1 | | | | | | | 1 | | | | | | | | | 16 | 1.2 | |
| Hypertrophy, Focal | | 1 | | | | | 1 | | | | | | | | 1 | | | 1 | | | 1 | | | | | | | | | | | 8 | 1.0 | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | 1.0 | |
| Vacuolization Cytoplasmic | | | | | | | 1 | | 1 | 1 | 1 | 1 | | | 1 | | | | | | | | 1 | 1 | | | | | | | | 17 | 1.1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Pars Distalis, Cyst | | | X | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Pars Distalis, Hyperplasia, Focal | | | | | | | 1 | 1 | 1 | | | | | | | | | | | | | | | 1 | | | | | | | | 8 | 1.4 | |
| Pars Nervosa, Inflammation, Chronic | | | | | | | 3 | | | | | | 2 | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Thyroid Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 46 | | | | |
| C-cell, Hyperplasia | 1 | 2 | 3 | 2 | | 1 | 3 | | | 2 | 2 | 1 | 3 | 2 | 2 | | 2 | 1 | 2 | | 3 | 2 | 2 | 2 | 1 | 2 | | | | | 44 | 1.9 | | |
| Follicle, Hypertrophy | | | 1 | 1 | | | | | | | 1 | 3 | 1 | | 1 | | | 1 | | | | 1 | 1 | 1 | 4 | 2 | | | | | 23 | 1.4 | | |
| Follicular Cell, Hyperplasia | | | | | | 1 | | | | | | | | 2 | | | | | | | | | | | | 1 | | | | | 7 | 1.6 | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|--|--|----------|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | | 1 |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|--|--|----------|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0363 | 0370 | 0344 | 0377 | 0377 | 0377 | 0355 | 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 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------------------------|-------------------------|
| Epididymis Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 1.0 |
| Preputial Gland Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 1.0 |
| Inflammation, Chronic Active Duct, Ectasia | 2 | 2 | | | | | 3 | | | | | 3 | | | | | 2 | 2 | | | | 2 | 2 | 15 | 2 3.0 2 3.0 15 2.2 | |
| Prostate Inflammation, Chronic Active Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 27 1.3 1 1.0 |
| Seminal Vesicle Hyperplasia Inflammation, Acute Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 | 1 2.0 2 1.5 1 2.0 |
| Testes Cyst Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0 6 1.8 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node Mediastinal, Ectasia | | | | | + | | | | | + | | | | | | | | | | | | | | | 6 | 2 1.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0366 | 0377 | 0377 | 0375 | 0366 | 0337 | 0377 | | 0356 | 0361 | 0373 | 0355 | 0361 | |
| 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 | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Mediastinal, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pancreatic, Inflammation, Chronic | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymph Node, Mandibular Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hemorrhage | | | 2 | | | | | | | | | 1 | | | | 2 | | | | | | 1 | | | 7 | | |
| Lymph Node, Mesenteric Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hemorrhage | | | 3 | | | | | | 2 | | | | | | | | | | | | | | 1 | | 1 | | |
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hemorrhage, Focal | | | 2 | | | | 1 | | 2 | | 2 | 1 | 1 | | | | | 1 | | 3 | | 1 | | 13 | | | |
| Pigmentation | 2 | 2 | | 1 | | 1 | | | | 1 | | | | 1 | | | 1 | | 1 | | 1 | | 2 | 2 | | | |
| Lymphoid Follicle, Atrophy | 2 | | | | | | | | | 2 | | | | | | | | | | | | 2 | | 5 | | | |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ectopic Parathyroid Gland | 2 | 3 | | 1 | 2 | | 3 | 3 | | 3 | | | | | | | 2 | | | | 2 | | | 26 | | | |
| Fibrosis | | | | | | | | | | | | | 1 | | | | | | | | | | | 2 | | | |
| Hemorrhage | | | | | | | | | | | | | | 3 | | | | | | | | | | 3 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Galactocele | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | M | + | + | + | M | + | + | + | 41 | |
| Pigmentation, Hemosiderin | | | | 1 | 1 | | | | | | 1 | | 1 | | | | 1 | | 1 | 1 | | | 1 | | 1 | | |
| Duct, Dilatation | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0367 | 0374 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | 0377 | | |
| 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 | 00011 | |
| Skin Pigmentation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 1 2.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain Compression | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 26 2.4 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infiltration Cellular, Histiocyte | | 1 | 1 | | 1 | | | | 1 | | | 1 | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | | | | 30 1.0 | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | 1 | | 1 | | | | | | | 2 | | | | 5 1.4 | |
| Artery, Mineralization | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 | |
| Bronchus, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 2.0 | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fungus | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation, Acute | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 | |
| Ulcer, Multifocal | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-------|
| Eye | + | + | + | + | A | + | + | A | + | + | + | + | + | A | A | + | + | A | + | + | + | + | + | + | + | 45 | | |
| Retina, Atrophy | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 3 | 2.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Karyomegaly | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 2.5 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Casts Protein | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hydronephrosis | 3 | 3 | | | | | | | | | | | | 3 | | | | | | | | | | | | | 10 | 2.7 |
| Hyperplasia, Oncocytic | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Acute | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nephropathy | | 1 | 2 | | | 4 | | | | | | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | | 3 | 1 | 37 | 1.4 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pelvis, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pelvis, Inflammation, Chronic Active | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 1.0 |
| Pelvis, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Calculus Gross Observation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| | | 0 | 0 | 0 | 0 | 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 MALE | DAY ON TEST | 3 | 7 | 6 | 6 | 7 | 4 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 3 | 7 | 7 | 5 | 6 | | |
| | | 5 | 3 | 7 | 3 | 0 | 4 | 2 | 1 | 2 | 9 | 3 | 3 | 3 | 3 | 8 | 3 | 0 | 3 | 9 | 6 | 1 | 3 | 3 | 5 | 1 | | |
| | | 1 | 1 | 6 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 1 | 2 | 0 | 1 | 0 | 5 | 6 | 0 | 1 | 0 | 8 | 0 | | |
| | 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 | | |
| | 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 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | |
| | | 1 | 2 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 6 | 8 | 9 | 0 | * TOTALS | |
| | Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 | | |
| | Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 | | |

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| WISTAR HAN RATS FEMALE | 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 MG/KG | 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 | |
| | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperkeratosis | 2 | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | |
| 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | X | | | | | | | | | | | | |
| Basophilic Focus, Multiple | X | X | X | X | X | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | | | | X | | | | | | | | | | | | | | | | | | X |
| Clear Cell Focus, Multiple | | | X | | | | | X | X | X | X | X | X | | X | X | X | | X | X | X | X |
| Congestion | | | | | | 3 | | | 1 | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | X | X | X | | | |
| Fatty Change | 3 | 3 | | | | | | | | 1 | | 1 | | 1 | | | | | | | | 1 |
| Hematopoietic Cell Proliferation | | | | | 1 | | | | | 1 | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | X | | | | | X | | | | | | | | X | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 7 | 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 | 0 7 3 5 | | | |
| Inflammation, Chronic Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Bile Duct, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 1 1 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1 | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Mesentery Congestion | | | | | | | | | | | | | | | | | | | | | | | | + | + + + + | |
| Inflammation, Chronic Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 3 3 1 | |
| Pancreas Atrophy | | | | | | | | | | | | | | | | | | | | | | | | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | |
| Salivary Glands Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Inflammation, Chronic Duct, Parotid Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Duct, Submandibular Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 1 | |
| Parotid Gland, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 2 | |
| Stomach, Forestomach Edema | | | | | | | | | | | | | | | | | | | | | | | | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|---|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Vacuolization Cytoplasmic | | | | | 1 | | | | | | | | 1 | | | | | | | | | | | | |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic Hyperplasia Hypertrophy Pigmentation, Hemosiderin | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland Pars Distalis, Cyst Pars Distalis, Hyperplasia, Focal Pars Nervosa, Inflammation, Chronic | + + + + + + + + + + X + + + + + + + + + + X + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland C-cell, Hyperplasia Follicle, Cyst Follicle, Cyst, Multiple Follicle, Hypertrophy Follicular Cell, Hyperplasia | + + + + + A + + + A + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | | | |
| 0 MG/KG | | 4 | 6 | 7 | 7 | 5 | 2 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| ANIMAL ID | | 4 | 9 | 3 | 3 | 9 | 9 | 8 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 8 | 3 | 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 | 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 | | | |
| | | 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 | 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 | | | |

Clitoral Gland
Inflammation, Chronic
Duct, Cyst

+

3 2

Ovary
Atrophy
Cyst
Follicle, Cyst
Follicle, Cyst, Multiple

+

2
3 4
3
2

Uterus
Angiectasis
Hemorrhage
Hyperplasia, Atypical
Inflammation, Chronic
Endometrium, Hyperplasia, Cystic
Serosa, Inflammation, Acute

+

4
1
3
1
1 4
2

Vagina

M M M M M + M

HEMATOPOIETIC SYSTEM

Bone Marrow
Myeloid Cell, Hyperplasia

+

2
3

Lymph Node
Pigmentation, Hemosiderin
Axillary, Ectasia
Axillary, Hyperplasia, Lymphoid
Axillary, Pigmentation

+

2
2
1
1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 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 2 1 | 0 0 2 2 2 | 0 0 2 2 3 | 0 0 2 2 3 | 0 0 2 2 3 | 0 0 2 2 3 | 0 0 2 2 3 | 0 0 2 2 4 | 0 0 2 2 4 | 0 0 2 2 4 | 0 0 2 2 4 | 0 0 2 2 4 | 0 0 2 2 4 | 0 0 2 2 4 | 0 0 2 2 5 | 0 0 2 2 5 | 0 0 2 2 6 | 0 0 2 2 7 | |
| Inguinal, Pigmentation | | | | 1 | | | | | | | | | | | | | | 2 | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation, Hemosiderin | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | 1 | | | | | | | | | | 3 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | 1 | 4 | | | | | | 4 | | 1 | | 1 | 2 | | 1 | | | | 2 | 1 | 1 | 1 | |
| Pigmentation | 2 | 2 | 1 | | | | 2 | 1 | 1 | | 1 | | | | | | 1 | | | | 1 | 1 | 1 | 1 | 1 | |
| Capsule, Fibrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | 4 | | | | | | | | | | 1 | | | | | | 1 | | | 1 | | | 1 | | |
| Hemorrhage | | | | | | | | 2 | 2 | | | | | 2 | 2 | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 2 7 | 0 6 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 | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|--|---|--|--|---|---|---|---|--|---|--|--|---|---|---|---|--|---|---|---|--|--|---|--|--|---|--|---|
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Fatty | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Galactocele | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 1 | | | | | 1 | 1 | 2 | 1 | | | | | 1 | 2 | 2 | 1 | | | 1 | 2 | | | 2 | | | | | 1 |
| Duct, Cyst | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Duct, Dilatation | 1 | | 1 | | | | | | | | 2 | | | | | | | | 2 | | | | | | | | 2 | | 1 |
| Skin | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|--|--|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|---|
| Brain | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compression | 3 | 3 | | | | | 3 | 3 | | | | | | | | | | | | | 3 | | | | | | | 3 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|--|--|--|--|---|---|---|--|--|--|--|---|---|--|--|---|---|---|---|--|--|--|--|---|
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | | | | | 1 | 1 | | | 1 | 1 | 1 | 1 | | | | | 1 |
| Inflammation, Chronic | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 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 | 7 | 7 | | |
| 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 | | |
| | | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 0 | | |

Serosa, Inflammation, Acute

Nose +

Trachea +

SPECIAL SENSES SYSTEM

Ear

Eye +

Mineralization

2

Retina, Atrophy

2

1

2

1

Harderian Gland + + + + + + + + + M + + + + + + + + + + + + + +

URINARY SYSTEM

Kidney +

Calculus Gross Observation

Casts Protein

1

Cyst

X

Cyst, Multiple

X

Hydronephrosis

Inflammation, Chronic

4

Nephropathy

1

1

1

1

1

1

1

1

Pelvis, Inflammation, Acute

1

Pelvis, Inflammation, Chronic Active

1

1

1

1

1

Pelvis, Mineralization

1

1

1

1

1

2

1

1

1

1

1

1

3

1

1

Transitional Epithelium, Hyperplasia

2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | | |
| | 4 | 6 | 7 | 7 | 5 | 2 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 4 | 9 | 3 | 3 | 9 | 9 | 8 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| 0 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | 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 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | | |

Ureter

Transitional Epithelium, Hyperplasia

Urinary Bladder

Inflammation, Chronic Active

Transitional Epithelium, Hyperplasia

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS FEMALE | 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 7 3 2 | 0 5 2 2 | 0 5 9 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 | | | |
| 0 MG/KG | 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 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 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 7 | 0 0 2 7 7 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 3.0 |
| 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 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Basophilic Focus | | | | X | | | | | | | | | | | | | | | | | | | | | 2 |
| Basophilic Focus, Multiple | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 42 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Clear Cell Focus, Multiple | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 33 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Eosinophilic Focus | | | | | | | X | | | | | | | | | | | | | | | | | | 5 |
| Fatty Change | | | | | | 1 | | 1 | 1 | 3 | | 1 | | | 1 | | | 1 | 1 | | | | 1 | 15 1.4 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | 1 | | | | | | | | | | 1 | | | | | 4 1.0 |
| Hepatodiaphragmatic Nodule | | | | | X | | | | | | | | | | | | | | | | | | | | 4 |
| Inflammation, Granulomatous | | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 7 3 2 | 0 5 2 2 | 0 5 2 2 | 0 7 9 8 | 0 7 0 6 | 0 7 3 3 | 0 7 3 3 | 0 7 3 3 | 0 7 3 3 | 0 7 3 3 | 0 7 3 3 | 0 6 4 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 0 5 5 | 0 0 0 2 5 | 0 0 0 2 5 | 0 0 0 2 5 | 0 0 0 2 5 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | 0 0 0 2 6 | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Bile Duct, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Bile Duct, Fibrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Bile Duct, Hyperplasia | 1 | | 1 | | | | | | | 1 | 2 | | 1 | 2 | 2 | | | 1 | | 1 | 2 | | | | 16 | 1.4 |
| Hepatocyte, Necrosis | | | | | 2 | | | | | | | | | | | | | | | | | | | | 4 | 1.3 |
| Oval Cell, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Serosa, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 10 | |
| Congestion | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Inflammation, Chronic | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Fat, Necrosis | | | | | | | | | | 2 | 1 | | | | | | | | 1 | | | | | | 8 | 2.1 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Atrophy | | | | | | 1 | | | | | | | | | | | | | | | | | | | 3 | 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | 1 | | | | | 3 | 1.3 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Duct, Parotid Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 | 1.0 |
| Duct, Submandibular Gland, Inflammation, Acute | | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 | 2.0 |
| Parotid Gland, Atrophy | | | | | | | | | | 1 | | | | | | | | | | | | | | | 4 | 1.5 |
| Parotid Gland, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | 1.0 |
| Parotid Gland, Vacuolization Cytoplasmic | | | | | | | | | 2 | 2 | | | | | | | | | 1 | | | | | | 6 | 2.0 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/12/2014
 Time Report Requested: 10:27:34
 First Dose M/F: 08/26/08 / 08/26/08
 Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | 4 | 2.3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 5 | 2.0 |
| Stomach, Glandular Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | |
| | 1 | | | | | | | | 1 | | | | | | | | 1 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | 49 | |
| | | | | | | | | | | | | | | | | | | | | | | 9 | 1.0 |
| Tooth Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Blood Vessel Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | 1 | | | | | 1 | | | | | | 1 | 1 | 2 | | | | 1 | | |
| Epicardium, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | 2 | 4 | 2 | 2 | 2 | 1 | 1 | 1 | 4 | 2 | 2 | 3 | | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | 1 | 1.1 |
| Hypertrophy, Focal | | | 2 | | 1 | | | | 1 | 1 | | | | | | | 2 | | 1 | | | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | 45 | 1.8 |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 7 3 2 | 0 5 2 2 | 0 5 9 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 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 | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 1 | 5 | 1.4 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Pars Distalis, Hyperplasia, Focal | | | 1 | | | | | 2 | | | | | | | 1 | 2 | | | | | | | | | | | | 14 | 1.3 | |
| Pars Nervosa, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Thyroid Gland | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | 45 | | | | | |
| C-cell, Hyperplasia | 1 | 2 | 2 | 1 | 2 | | 1 | 2 | 1 | 3 | 2 | 2 | | 2 | 2 | 1 | 1 | 3 | | 2 | 1 | 1 | 1 | 2 | 2 | 45 | 1.8 | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Follicle, Cyst, Multiple | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Follicle, Hypertrophy | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 8 | 1.1 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|-----|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2.0 |

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 7 3 2 | 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 6 4 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 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|------------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 49 | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|------------|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 2.6 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3.3 |
| Follicle, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|------------|
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 2.1 |
| Serosa, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
| 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 | M | 1 | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|------------|
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Axillary, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Axillary, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Axillary, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 9 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 | 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 | | | | | | |
| Inguinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.5 | | |
| Mediastinal, Pigmentation, Hemosiderin | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | 2 | 3 | 1.7 | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Pancreatic, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Ectasia | | | | 1 | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | 4 | 1.0 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Ectasia | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 | |
| Hematopoietic Cell Proliferation | | | | 1 | 1 | 2 | 2 | 2 | | 4 | | 1 | 1 | | 2 | 2 | 1 | | 2 | | 1 | | 2 | 1 | 1 | | | 27 | 1.7 | | |
| Pigmentation | | | | 1 | 1 | 1 | | 1 | 2 | | 2 | 1 | 1 | | 1 | | 1 | 1 | 1 | 2 | | 1 | | 1 | 2 | | | 31 | 1.2 | | |
| Capsule, Fibrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 1.9 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 2.0 |

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS FEMALE 0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-----|-----|-----|
| | 0508 | 0505 | 0505 | 0505 | 0505 | 0502 | 0505 | 0502 | 0502 | 0508 | 0506 | 0502 | 0507 | 0502 | 0502 | 0502 | 0506 | 0506 | 0506 | 0506 | 0506 | 0506 | 0506 | 0506 | | | | | | |
| ANIMAL ID | 00254 | 00255 | 00256 | 00257 | 00258 | 00259 | 00260 | 00261 | 00262 | 00263 | 00264 | 00265 | 00266 | 00267 | 00268 | 00269 | 00270 | 00271 | 00272 | 00273 | 00274 | 00275 | 00276 | 00277 | 00278 | 00279 | 00280 | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Degeneration, Fatty | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Galactoceles | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | | |
| Hyperplasia Duct, Cyst | | | | 1 | | 1 | | 1 | | | 1 | 1 | | | 1 | 1 | 1 | 2 | | 1 | | | 2 | | 2 | 2 | 26 | 1.3 | | |
| Duct, Dilatation | | | | | 2 | | | 1 | | | | 1 | | | 2 | | | 1 | | 2 | 1 | | | 1 | 2 | | 16 | 1.5 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Fibrosis | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 8 | 3.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Infiltration Cellular, Histiocyte | | | | | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | | 1 | | 1 | | 1 | | | | | | 25 | 1.0 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 9 2 | 0 7 0 8 | 0 7 3 6 | 0 7 3 2 | 0 7 3 7 | 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 | 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 |
| Serosa, Inflammation, Acute | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Trachea | + + + + + + + M + + + + A + + + + + A + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | 47 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | + | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Mineralization Retina, Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 9 1.7 |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Calculus Gross Observation | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Casts Protein | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hydronephrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Nephropathy | 1 | | | | | | | | | | | | | | | | | | | | | | | | 13 1.0 |
| Pelvis, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pelvis, Inflammation, Chronic Active | 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 16 1.2 |
| Pelvis, Mineralization | 1 1 1 2 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 31 1.2 |
| Transitional Epithelium, Hyperplasia | 1 1 | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| Wistar Han Rats Female 0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| | 058 | 075 | 075 | 075 | 075 | 077 | 077 | 075 | 075 | 077 | 077 | 070 | 077 | 077 | 077 | 077 | 077 | 066 | 077 | 077 | 077 | 077 | 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 | 000 | 000 | 000 | |
| | 2 | 2 | 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 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| Ureter Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Urinary Bladder Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | | 5 | 7 |
| 3 MG/KG | 3 | 0 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 8 | 3 | 3 | 2 | 3 | 3 |
| | 5 | 8 | 5 | 5 | 5 | 2 | 2 | 9 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 2 | 2 | 4 | 2 | 7 | 2 | 2 | 2 |
| | 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 | 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 | 3 | 3 | 3 | 3 | 3 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum Degeneration, Fatty, Focal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum Epithelium, Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Basophilic Focus | | | X | | | | | | | | | | | | | | | X | | X | | | | |
| Basophilic Focus, Multiple | X | | | X | X | | X | X | X | X | X | X | X | X | X | X | X | | X | | X | X | X | |
| Clear Cell Focus | | | X | | | | | X | | | | | | | | | | | | | | | | |
| Clear Cell Focus, Multiple | | | | | X | X | | | X | X | X | X | X | | | | | X | | X | | | X | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus, Multiple | | | X | | | | | X | | | | | | | | | | | | | | | | |
| Fatty Change | | | 3 | | | | | 4 | | | | | 1 | | | | | 1 | 3 | | | 2 | 4 | 1 |
| Hematopoietic Cell Proliferation | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | X | | | | | | | | | | | | X | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | X | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Pentabromodiphenyl oxide (technical) (DE 71)
 CAS Number: 32534-81-9

Date Report Requested: 08/12/2014
 Time Report Requested: 10:27:34
 First Dose M/F: 08/26/08 / 08/26/08
 Lab: SRI

| WISTAR HAN RATS FEMALE 3 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 | ANIMAL ID | females (cont...) | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 5 | 7 | | | 7 |
| | 3 | 0 | 7 | 0 | 7 | 0 | 7 | 3 | 0 | 7 | 3 | 0 | 7 | 3 | 0 | 7 | 3 | 0 | 7 | 3 | 0 | 7 | 3 | 0 | 1 | |
| | 5 | 8 | 5 | 3 | 5 | 3 | 5 | 3 | 2 | 5 | 3 | 2 | 5 | 3 | 2 | 5 | 3 | 2 | 5 | 3 | 2 | 5 | 3 | 2 | 2 | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 |
| Mesentery Inflammation, Granulomatous, Chronic Active Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| Wistar Han Rats Female 3 MG/KG | 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 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | | 5 |
| | 3 | 0 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 8 | 3 | 3 | 2 | 3 |
| | 5 | 8 | 5 | 5 | 5 | 2 | 2 | 9 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 2 | 2 | 4 | 2 | 7 | 2 | 2 |
| 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 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| Ulcer Epithelium, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | 1 | 2 |
| Stomach, Glandular Inflammation, Acute Mineralization Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | 1 | | 1 | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Heart Cardiomyopathy Epicardium, Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | 1 | 1 | 1 | | 2 | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex Accessory Adrenal Cortical Nodule, Multifocal Angiectasis Hyperplasia, Focal Hypertrophy, Focal Necrosis Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | | | | | | | 1 | | | | | | | 1 | 1 | | |
| | | | | 1 | 1 | | 1 | | | | | | | | | | | 1 | | | | |
| | | | | | 1 | | | | | | | | | | | | 1 | | | 1 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

Pars Distalis, Cyst, Multiple
 Pars Distalis, Hyperplasia, Focal
 Pars Intermedia, Hyperplasia, Focal
 Pars Intermedia, Hypertrophy

X
 1
 2
 2
 1 1 1
 2

Thyroid Gland
 C-cell, Hyperplasia
 Follicle, Hypertrophy
 Follicular Cell, Hyperplasia

+
 2 2 2 2 1 1 2 1 2 2 1 2 1 2 2 2 2 2 3 2 1 2 1 2
 1 1 1 2
 1

GENERAL BODY SYSTEM

Tissue NOS
 Inflammation, Suppurative, Chronic Active

+

GENITAL SYSTEM

Clitoral Gland
 Inflammation, Chronic
 Duct, Cyst
 Duct, Cyst, Multiple

+
 1
 3

Ovary
 Atrophy
 Cyst
 Hyperplasia, Tubulostromal
 Follicle, Cyst
 Follicle, Cyst, Multiple

+
 3
 2
 1
 3

Uterus
 Adenomyosis

+
 1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

| | | 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 | 0 | 0 | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | |
| WISTAR HAN RATS FEMALE | 3 MG/KG | 3 | 0 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 8 | 3 | 3 | 2 | 3 | 3 | |
| | | 5 | 8 | 5 | 5 | 5 | 2 | 2 | 9 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 5 | 2 | 2 | 4 | 2 | 7 | 2 | 2 | 5 | 2 | |
| | 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 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| 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 | M | M | M | M |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Mediastinal, Inflammation, Granulomatous, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation, Hemosiderin | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Popliteal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pigmentation, Hemosiderin | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hemorrhage | | | | | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | | | | | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | | | | | |
| | | 3 | 0 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 8 | 3 | 3 | 2 | 3 | 3 | 3 | | | | | |
| | | 5 | 8 | 5 | 5 | 5 | 2 | 2 | 9 | 2 | 2 | 5 | 5 | 5 | 5 | 2 | 4 | 2 | 7 | 2 | 2 | 5 | 2 | 2 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | | 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 | | | |
| | | | | | | | | | | | | | | | | | | | | | | females (cont...) | | | | | | | |
| Hematopoietic Cell Proliferation | | | | 1 | 4 | | | 2 | 2 | 1 | | | 1 | 1 | 2 | 2 | 1 | | | 2 | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | 1 | 2 | | | 1 | 1 | 1 | 2 | 1 | | | 2 | 1 | | | | | 2 | 1 | | | 2 | 1 | 1 | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | | | | |
| Atrophy | | | | 1 | | | | | 4 | | | | | | | | | | | 4 | | | | | 3 | | | | |
| Hemorrhage | | 2 | | | 2 | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Hyperplasia | | | | 2 | 2 | 1 | | | 1 | 1 | 1 | 1 | 1 | | | 1 | | | 1 | 1 | | | 2 | 3 | 2 | | | | |
| Duct, Dilatation | | | | 1 | 2 | | | 2 | 2 | 2 | | | | | 2 | | | | | 1 | | | 1 | | | 2 | 1 | | |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Inflammation, Chronic | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Compression | | | | 3 | | | | | 3 | | | | | | | | | | | | | 2 | | | 3 | 2 | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 08/12/2014

Test Type: CHRONIC

Pentabromodiphenyl oxide (technical) (DE 71)

Time Report Requested: 10:27:34

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 FEMALE 3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|--|
| | 0 7 3 5 | 0 7 3 8 | 0 7 3 5 | 0 7 3 5 | 0 7 3 5 | 0 7 3 2 | 0 7 3 2 | 0 6 1 9 | 0 7 3 2 | 0 7 3 2 | 0 7 3 5 | 0 7 3 5 | 0 7 3 5 | 0 7 3 5 | 0 7 3 5 | 0 7 3 2 | 0 7 3 2 | 0 6 3 4 | 0 7 3 2 | 0 6 3 2 | 0 7 3 2 | 0 5 2 5 | 0 7 3 2 | 0 7 3 2 | | | |
| ANIMAL ID | 0 0 2 8 1 | 0 0 2 8 2 | 0 0 2 8 3 | 0 0 2 8 4 | 0 0 2 8 5 | 0 0 2 8 6 | 0 0 2 8 7 | 0 0 2 8 8 | 0 0 2 8 9 | 0 0 2 8 0 | 0 0 2 8 1 | 0 0 2 8 2 | 0 0 2 8 3 | 0 0 2 8 4 | 0 0 2 8 5 | 0 0 2 8 6 | 0 0 2 8 7 | 0 0 2 8 8 | 0 0 2 8 9 | 0 0 2 8 0 | 0 0 2 8 1 | 0 0 2 8 2 | 0 0 2 8 3 | 0 0 2 8 4 | 0 0 2 8 5 | | |
| Lung Infiltration Cellular, Histiocyte Alveolar Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nose Inflammation, Acute | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Trachea Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye Developmental Malformation Retina, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney Cyst Hydronephrosis Nephropathy Pigmentation Pelvis, Inflammation, Chronic Active Pelvis, Mineralization Transitional Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 |
|-------------------------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|
| WISTAR HAN RATS FEMALE | | 7 | 6 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | |
| | | 3 | 5 | 5 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 6 | 9 | 3 | 3 | 3 | 3 | 3 | |
| | | 5 | 1 | 8 | 5 | 5 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 | 2 | 4 | 6 | 6 | 6 | 6 | 6 | |
| | 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 | 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 | |
| | | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum Degeneration, Fatty, Focal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 |
| Intestine Small, Duodenum Epithelium, Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |
| Basophilic Focus | | | | | | | | | | | | | | | | X | | | | | | | | 4 |
| Basophilic Focus, Multiple | X | | X | X | | X | X | X | X | X | X | X | | | | X | X | X | X | | X | | | 39 |
| Clear Cell Focus | | | | | | | | | | | | | X | | | | | | | | | | | 3 |
| Clear Cell Focus, Multiple | | | | | | | | X | X | | X | X | | | | X | | | X | X | X | | | 18 |
| Eosinophilic Focus | | | X | | | | | | | | | | | | | | | X | | X | | | X | 5 |
| Eosinophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Fatty Change | | 4 | 4 | | | | | 1 | | | | | | | | | | | 2 | | | | | 12 2.5 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | X | | | | | | | | | | | X | X | | 5 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pigmentation | | | 1 | | | | | | | | | | | 3 | | | | | | | | | | 2 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS FEMALE 3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|-----|-----|
| | 07 | 06 | 06 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 03 | 07 | 07 | 07 | 06 | 06 | 07 | 07 | | 07 | 07 | 07 | 07 | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | |
| Bile Duct, Hyperplasia | | | | | 1 | 2 | | | 1 | 1 | 1 | | | 1 | | | | | 1 | 1 | 1 | | 1 | 20 | 1.2 | |
| Hepatocyte, Hypertrophy | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 48 | 1.9 |
| Hepatocyte, Necrosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Oval Cell, Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | 1 | | | 1 | 3 | 1.0 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 7 | |
| Inflammation, Granulomatous, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Fat, Necrosis | | | | | | | | | | | 2 | 2 | | | 1 | | | | | | | | | | 6 | 1.5 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 |
| Inflammation, Granulomatous, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Duct, Degeneration, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Duct, Parotid Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Parotid Gland, Atrophy | | | | | 2 | | | | | | | | | | | | | | 2 | | | | | | 4 | 2.0 |
| Parotid Gland, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Parotid Gland, Vacuolization Cytoplasmic | | | | | 2 | 2 | | | | | | | | | | | | | 2 | 3 | | | | | 9 | 1.9 |
| Sublingual Gland, Vacuolization Cytoplasmic | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Submandibular Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Submandibular Gland, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 1.7 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 3 5 8 | 0 7 3 6 | 0 7 3 6 | 0 6 9 2 | 0 6 3 4 | 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 0 | 0 0 3 3 1 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 | 0 0 3 3 2 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-----|
| Ulcer | 3 2 | | | | | | | | | | | | | | | | | | | | | | 4 | 2.0 |
| Epithelium, Hyperplasia | 3 2 | | | | | | | | | | | | | | | | | | | | | | 6 | 2.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|--|-----|--|---|--|-----|--|---|--|---|--|---|--|---|--|---|--|---|--|----|-----|---|-----|---|--|---|--|----|-----|
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | 49 | | | | | | | | | |
| Inflammation, Acute | + | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | | | | |
| Mineralization | 1 | | 1 1 | | 2 | | 1 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 11 | 1.1 |
| Ulcer | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|----|-----|---|--|---|--|---|--|---|--|---|-----|
| Heart | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | |
| Cardiomyopathy | + | | | | | | | | | | | | | | | | | | | | 8 | 1.1 | | | | | | | | | | |
| Epicardium, Inflammation, Chronic | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | 1 | 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|-----|-----|--|-----|--|-----|--|-----|--|----|-----|
| Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | 49 | | | | | | | | | | | |
| Accessory Adrenal Cortical Nodule, Multifocal | + | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | | | | | |
| Angiectasis | 1 2 | | 1 2 | | 2 1 | | 2 2 | | 2 2 | | 1 1 | | 2 1 | | 2 2 | | 1 1 | | 2 1 | | 2 3 | | 1 1 | | 3 1 | | 1 1 | | 3 1 | | 44 | 1.5 |
| Hyperplasia, Focal | | | 1 | | | | | | 1 | | 1 | | | | 1 | | | | | | 1 | | | | | | | | | | 6 | 1.0 |
| Hypertrophy, Focal | 1 | | 1 | | | | | | 1 1 | | | | | | 1 | | | | | | | | | | | | | | | | 9 | 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|
| Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | 50 | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|
| Islets, Pancreatic | | | | | | | | | | | | | | | | | | | | | 49 | |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|
| Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | 47 | |
|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|
| Pituitary Gland | | | | | | | | | | | | | | | | | | | | | 49 | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS FEMALE 3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|---|---|--|
| | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | | 0735 | | | |
| ANIMAL ID | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 49 | | | |
| | 67 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|--|--|--|--|---|---|--|--|--|--|---|--|--|--|--|--|--|--|---|--|--|--|--|-------|
| Pars Distalis, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | 1 | | | | | 1 | | | | | | | | 1 | | | | | 9 1.2 |
| Pars Intermedia, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pars Intermedia, Hypertrophy | | | | | | 2 | | | | | | | | | | | | | | | | | | | 1 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 49 |
| C-cell, Hyperplasia | 2 | 3 | 3 | 1 | 1 | 2 | | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 48 1.8 |
| Follicle, Hypertrophy | 2 | | 2 | | | 1 | 1 | | | | | | | 1 | | | | 1 | 1 | | | | 1 | 1 | 17 1.3 |
| Follicular Cell, Hyperplasia | 1 | | | | | | | | | | | 1 | | | | | | | 1 | | | | | | 5 1.0 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|-------|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Suppurative, Chronic Active | | | | | | | | | | | | | | | | | | | 4 | | | | | | 1 4.0 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 49 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Duct, Cyst | | 2 | | | | | | | | 3 | | | | | | | | | | 2 | | | | | 4 2.5 |
| Duct, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 49 |
| Atrophy | | | | | | 3 | | | | | | 3 | | | | | | | | | | | | 3 | 3 3.0 |
| Cyst | | | | | | | 3 | | | | | | | | | | | | 1 | | | | | 2 | 5 2.2 |
| Hyperplasia, Tubulostromal | | | | 3 | | | | | | | 3 | | | | | | | | | | 3 | | | | 4 3.0 |
| Follicle, Cyst | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Follicle, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 49 |
| Adenomyosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| DAY ON TEST | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|---|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|
| | 0735 | 0651 | 0658 | 0735 | 0735 | 0736 | 0758 | 0763 | 0766 | 0766 | 0766 | 0766 | 0766 | 0766 | 0766 | 0766 | 0766 | 0766 | 0766 | 0766 | | 0766 | 0766 | | | | | | | | | | | | | | | | | | | | | | |
| WISTAR HAN RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 2 | 4 | 4 | 9 | 2.2 | | | | | | | | | | | | | | | | | | |
| 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 | M | | | | | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | 3 | 2 | | | | | | | | | | | | | | | | | | 2 | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Inflammation, Granulomatous, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Pigmentation | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 3 5 8 | 0 7 3 6 | 0 7 3 6 | 0 7 3 6 | 0 6 9 6 | 0 6 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 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 | 0 0 3 2 2 | |
| Hematopoietic Cell Proliferation | 1 | | | | 1 | | | 2 | | | 1 | 1 | | 1 | 1 | 1 | | 4 | | 1 | 1 | 1 | | 2 | 24 | 1.5 |
| Hemorrhage | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pigmentation | | 2 | 2 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | | | 31 | 1.3 | |
| Lymphoid Follicle, Atrophy | | | 1 | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Atrophy | | | 2 | | | | | | | | | | | | | | | 2 | 3 | | | | | 7 | 2.7 | |
| Hemorrhage | 2 | | | | | | | | | 3 | | 1 | | | | | | | | | | | | 6 | 2.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 | | |
| Hyperplasia | | 3 | 2 | 1 | 1 | | | 1 | | 2 | | | 1 | 1 | | | 2 | 1 | | 1 | 1 | | 1 | 28 | 1.4 | |
| Duct, Dilatation | | | | 2 | 2 | | | | 1 | | | 3 | | 1 | 2 | 2 | 2 | | | 2 | | | | 19 | 1.7 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Compression | | 3 | 3 | | | | | | | | | | | 1 | | | 3 | | | | | | | 9 | 2.6 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS FEMALE 3 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--------------------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|--|--|
| | 07 35 | 06 51 | 06 58 | 07 35 | 07 35 | 07 36 | 05 85 | 07 36 | 07 36 | 07 36 | 07 36 | 07 36 | 03 58 | 07 36 | 07 36 | 07 36 | 06 62 | 06 64 | 07 36 | 07 36 | | 07 36 | 07 36 | 07 36 | | | |
| ANIMAL ID | 003006 | 003007 | 003008 | 003009 | 003010 | 003011 | 003012 | 003013 | 003014 | 003015 | 003016 | 003017 | 003018 | 003019 | 003020 | 003021 | 003022 | 003023 | 003024 | 003025 | 003026 | 003027 | 003028 | 003029 | 003030 | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Infiltration Cellular, Histiocyte | | | | 1 | | | | | 1 | | | | 1 | 1 | | 1 | 1 | | | | 2 | 1 | 1 | | 23 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic | | | | | | | | | | | | | 1 | | | | | | | | | | | | 1 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | X | | | | | | | | | | | | | 1 | | |
| Hydronephrosis | | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 | | |
| Nephropathy | | | | 1 | | | | | | | | | | | | | | | | 2 | 1 | | | 1 | 8 | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | | |
| Pelvis, Inflammation, Chronic Active | 2 | | 1 | | | | | | | | | | 1 | | 1 | | | | | 1 | | | | | 10 | | |
| Pelvis, Mineralization | 1 | 1 | 1 | 1 | 1 | | | 2 | 1 | | 1 | | 2 | | 1 | 1 | 2 | | 1 | | 1 | 1 | | 2 | 29 | | |
| Transitional Epithelium, Hyperplasia | | | | 2 | | | | | | | | | | 2 | | | | | | | | | | 1 | 4 | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | 1 | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | X | | | | | | | | | | X | | | | | | | | | | | |
| Basophilic Focus, Multiple | X | X | | X | X | X | | X | | X | X | | X | X | X | X | | X | X | X | X | | | | | | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Clear Cell Focus, Multiple | | | X | | X | | | | | | | | X | | X | X | | X | X | X | X | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | X | | | | X | | X | X | | | | | | | | | | | | | | X |
| Eosinophilic Focus, Multiple | | | | | | | | | X | X | | X | | X | X | | | | | | | X | X | | X | | | | | |
| Fatty Change | | | | | 1 | 4 | 1 | 1 | | 1 | | | | 4 | 1 | | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 2 | | | |
| Fibrosis | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Nodular | | | | | | | | 3 | | | | | 2 | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | 1 | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 2 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 3 | 0 6 5 | 0 7 3 | 0 6 3 | 0 7 3 | 0 7 3 | 0 7 3 | 0 5 3 | 0 7 3 | 0 6 8 | 0 7 3 | 0 6 3 | 0 7 3 | 0 6 3 | 0 7 3 | | | 0 6 3 | | |
| Bile Duct, Cyst, Multiple | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 1 | | | | 1 | | 1 | | | 1 | | | | 1 | | | | 1 | | 1 | 1 | 1 | | | |
| Hepatocyte, Degeneration | | | | | | | | | 4 | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | | |
| Hepatocyte, Mitosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Mesentery | | | | + | | | | | + | | | + | | + | | + | | | | + | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | 1 | | | | 1 | | | | | 2 | | |
| Oral Mucosa | | | | | | | | | + | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | | 2 | | | | | | | | | | 1 | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Duct, Parotid Gland, Inflammation, Acute | | | | | | | | | 4 | | | | | | | | | | | | | | | | |
| Parotid Gland, Atrophy | | | 1 | | | | 1 | | | | | | | 2 | | | | | | | | | | | |
| Parotid Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Vacuolization Cytoplasmic | | | | | | | 1 | 1 | | | | | | 2 | | | | | | | | | | | |
| Sublingual Gland, Ectopic Tissue | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | 2 | | | | | | | | 3 | | | | | | | | | | |
| Inflammation, Acute | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | 3 | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | |
| | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | |
| 15 MG/KG | 3 | 3 | 0 | 3 | 3 | 5 | 5 | 3 | 3 | 3 | 3 | 5 | 3 | 8 | 3 | 3 | 1 | 3 | 3 | 3 | 3 |
| | 5 | 5 | 8 | 5 | 5 | 3 | 6 | 6 | 0 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 4 | 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 |
| | 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 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 |

Mineralization
Ulcer
Epithelium, Hyperplasia

1
2
2
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1

Stomach, Glandular
Erosion
Inflammation, Acute
Mineralization
Necrosis
Ulcer

+
+
1 1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart
Cardiomyopathy

+
2 1 1 1

ENDOCRINE SYSTEM

Adrenal Cortex
Angiectasis
Hematopoietic Cell Proliferation
Hyperplasia, Focal
Hypertrophy, Focal
Vacuolization Cytoplasmic

+
4 1 1 1 1 1 1 2 2 2 1 1 2 2 3 2 3 1 1 2 1 3 1
1
1 3
1 2 1 1
1 1 1

Adrenal Medulla
Hyperplasia, Focal

+ +

Islets, Pancreatic

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 3 8 | 0 7 3 5 | 0 7 3 5 | 0 5 3 | 0 6 5 | 0 7 3 | 0 6 3 | 0 7 3 | 0 7 3 | 0 7 3 | 0 5 3 | 0 7 3 | 0 6 8 | 0 7 3 | 0 6 3 | 0 7 3 | 0 6 3 | 0 7 3 | 0 6 3 | 0 7 3 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst, Multiple | | | | | | | | X | | | | | | | | | | | X | | | | | |
| Pars Distalis, Hyperplasia, Focal | | | | 1 | 1 | | | 1 | 1 | | | | | | | | | 2 | 2 | 1 | 1 | 1 | | |
| Pars Nervosa, Cyst, Multiple | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Pars Nervosa, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | | |
| C-cell, Hyperplasia | 1 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 1 | 1 | | |
| Follicle, Cyst | | | | | | | | | X | | | X | | | | | | | | | | | | |
| Follicle, Hypertrophy | | | 1 | | 2 | | | | 1 | 1 | | | | 1 | 1 | 2 | | 1 | | 1 | | 2 | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hypertrophy | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | + | | | | + | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | | | | | | | | | | | | 2 | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS FEMALE 15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | 0735 | |
| ANIMAL ID | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | |
| Cyst | | | 4 | | | | | | 2 | 1 | | | | | | 2 | | | 1 | | | | | | |
| Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Hyperplasia, Tubulostromal Follicle, Cyst | | | | | | | | | | | | | | | 2 | | | | | | | 3 | 2 | 2 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Decidual Reaction | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Dilatation | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Atypical | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Cervix, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | 1 | | | | | 3 | | 1 | 2 | 3 | 4 | 1 | 3 | | | |
| Myometrium, Degeneration, Mucoïd | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Serosa, Cyst | | | | | | | | | | | | | 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 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Myeloid Cell, Hyperplasia | | | 2 | | | | | | 2 | 2 | | | | | 3 | | | | 2 | | | | 2 | |
| Lymph Node | | | | | + | | | | + | | | | | | + | | | | | | | | | |
| Inguinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Plasma Cell | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation, Hemosiderin | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | |
| | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 6 | 7 | 7 | 3 | 7 | |
| | 3 | 3 | 0 | 3 | 3 | 5 | 5 | 3 | 3 | 3 | 3 | 5 | 3 | 8 | 3 | 3 | 1 | 3 | 3 | 3 | |
| 15 MG/KG | 5 | 5 | 8 | 5 | 5 | 3 | 6 | 6 | 0 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | |
| | 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 | |
| | 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 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

Ulcer
Epidermis, Hyperplasia

2

MUSCULOSKELETAL SYSTEM

Bone +

NERVOUS SYSTEM

Brain +
 Compression 3 3 1 3 3
 Hemorrhage, Multifocal

Peripheral Nerve +

RESPIRATORY SYSTEM

Lung +
 Infiltration Cellular, Histiocyte 1
 Mineralization 1
 Alveolar Epithelium, Hyperplasia 1

Nose +
 Inflammation, Acute 3

Trachea +
 Inflammation, Chronic

SPECIAL SENSES SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
 X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
 I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------------|---|---|--|
| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | |
| | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 3 | 7 | 6 | 7 | |
| | 3 | 3 | 0 | 3 | 3 | 5 | 5 | 3 | 3 | 3 | 3 | 5 | 3 | 8 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 7 | 3 | |
| | 5 | 5 | 8 | 5 | 5 | 3 | 6 | 6 | 0 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 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 | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | 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 | |
| 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 | 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 | 3 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Retina, Atrophy | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hydronephrosis | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Nephropathy | 1 | 1 | | | 1 | | | | 1 | | 1 | | 1 | | | | | 1 | | | | | 1 | 1 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Chronic Active | | 1 | | | 1 | | | | | | 1 | | | | | | | | | | | | 1 | | |
| Pelvis, Mineralization | 1 | 1 | | | 1 | | | | | | 1 | | 1 | | | 1 | 1 | | | | | | 2 | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

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 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | | | 4 | 1.0 |
| Basophilic Focus | | | | | | | X | | | X | | X | | | | | | | | X | X | | | | | | 7 | |
| Basophilic Focus, Multiple | | | X | | X | X | X | | X | X | | X | X | | | | | | X | X | X | X | | X | X | X | 33 | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Clear Cell Focus, Multiple | X | X | | | X | X | X | X | | | | X | X | X | | | | | X | X | X | | X | X | X | | 25 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 |
| Eosinophilic Focus | | | | | | | X | | X | | | | | | | X | X | | | X | | | | | | | 10 | |
| Eosinophilic Focus, Multiple | | | | | | | X | | X | | | | | | | | | | | | | | | | X | | 11 | |
| Fatty Change | 4 | 1 | 2 | | | 1 | 1 | 1 | | 4 | | 1 | 3 | 1 | | | | | 1 | 1 | 3 | 1 | | 1 | | | 28 | 1.6 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hyperplasia, Nodular | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 4 | 1.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0759 | 0771 | 0773 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | | |
| ANIMAL ID | 003566 | 003567 | 003568 | 003569 | 003570 | 003571 | 003572 | 003573 | 003574 | 003575 | 003576 | 003577 | 003578 | 003579 | 003580 | 003581 | 003582 | 003583 | 003584 | 003585 | 003586 | 003587 | 003588 | 003589 | | |
| Bile Duct, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Bile Duct, Hyperplasia | | | | | | | | | 1 | 2 | | 1 | | | 1 | | | 1 | | | | | | | 16 | 1.1 |
| Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Hepatocyte, Hypertrophy | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 49 | 3.0 |
| Hepatocyte, Mitosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | 1.0 |
| Oval Cell, Hyperplasia | | | | | | | | | 1 | | | | | | 1 | | | | | | | | | | 3 | 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 9 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 1.4 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Duct, Parotid Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.5 |
| Parotid Gland, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Parotid Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Parotid Gland, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.6 |
| Sublingual Gland, Ectopic Tissue | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | 7 | 2.3 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS FEMALE 15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
| | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | | 30 |
| ANIMAL ID | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | 00373 | 00374 | 00375 | 00376 | 00377 | 00378 | 00379 | 00380 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|--|--|--|--|--|--|--|--|--|---|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|-----|
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 |
| Ulcer | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Epithelium, Hyperplasia | 3 | | | | | | | | | | 3 | | | 3 | | | | | | | | | | | | | 6 | 3.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Erosion | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Inflammation, Acute | | | | 2 | | | | | | | 1 | | | | | | | | | | | | | | | | 2 | 1.5 |
| Mineralization | | | 1 | | | 1 | 1 | | | | 1 | | 1 | 1 | | | | | | | | 1 | 1 | | | | 14 | 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Ulcer | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 | 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 1.2 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 4 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 44 | 1.5 | |
| Hematopoietic Cell Proliferation | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 |
| Hyperplasia, Focal | | | 1 | | | | | | | | | 1 | 1 | | | 1 | 1 | | | | | | | 1 | | 12 | 1.3 | |
| Hypertrophy, Focal | | | | | | | | 1 | | | | 1 | | | 1 | | | | | | | | 1 | | 1 | 12 | 1.3 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | 1 | | 1 | | 1 | | | | | | | | | | | | 7 | 1.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0056 | 0770 | 0773 | 0776 | 0671 | 0773 | 0773 | 0473 | 0776 | 0776 | 0676 | 0773 | 0773 | 0673 | 0773 | 0773 | 0673 | 0773 | 0773 | 0773 | 0773 | 0773 | |
| 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 | |

Parathyroid Gland + 49

Pituitary Gland + 50
 Pigmentation, Hemosiderin 1 2 2 1.5
 Pars Distalis, Cyst, Multiple X 3
 Pars Distalis, Hyperplasia, Focal 2 1 2 2 1 1 2 1.4
 Pars Nervosa, Cyst, Multiple 1 2.0
 Pars Nervosa, Inflammation, Chronic 2 1 2.0

Thyroid Gland + + + + + + + + + + + + + A + + + + A + + + + + 47
 C-cell, Hyperplasia 2 3 3 2 2 1 1 1 2 2 2 2 1 2 1 2 1 3 3 2 2 3 46 1.8
 Follicle, Cyst 2
 Follicle, Hypertrophy 1 1 3 1 2 3 1 1 2 1 1 22 1.4
 Follicular Cell, Hyperplasia 2 2 1 4 1.8
 Follicular Cell, Hypertrophy 1 1.0

GENERAL BODY SYSTEM

Tissue NOS + + 4
 Fibrosis 1 1.0

GENITAL SYSTEM

Clitoral Gland + 50
 Inflammation, Chronic 1 1 1.0
 Inflammation, Chronic Active 1 1 1.0
 Duct, Cyst 2 2 3 2.0
 Ovary + 50
 Atrophy 1 2.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
 X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
 I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0766 | 0776 | 0776 | 0766 | 0776 | 0736 | 0776 | 0776 | 0776 | |
| ANIMAL ID | 003566 | 003333 | 003556 | 003333 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | 003666 | |
| Cyst | 1 | | | | | | 3 | | | | | | | | | | | | | | | | 2 | 8 2.0 | |
| Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Hyperplasia, Tubulostromal Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | 3 | | 3 2.3 | |
| | | | | | | | | | | | | | | | | | | | | | | 1 | | 3 2.0 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Decidual Reaction | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Hemorrhage | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | 1.0 |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Cervix, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Endometrium, Hyperplasia, Cystic | | 2 | | 2 | | | | | | | | 3 | | 2 | | | 1 | | 4 | | 4 | | 2 | 4 | 17 2.5 |
| Myometrium, Degeneration, Mucoïd | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Serosa, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Vagina | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Myeloid Cell, Hyperplasia | | | 3 | | | | | | | | | | | | | | | | | | | | | 7 2.3 | |
| Lymph Node | | + | | | + | | | | | | | | | | | | | | | | | | + | 6 | |
| Inguinal, Pigmentation | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | 2 1.0 | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Mediastinal, Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Mediastinal, Pigmentation | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Mediastinal, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS FEMALE 15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 06776 | 07366 | 00577 | 07777 | 00767 | 07777 | 00767 | 07777 | 00767 | 07777 | 00767 | 07777 | 00767 | 07777 | 00767 | 07777 | 00767 | 07777 | 00767 | 07777 | |
| ANIMAL ID | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 50 |
| | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 33333 | 19 |
| | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 55555 | 1 |
| | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 66666 | 3 |

Ectasia 4 1.0

Lymph Node, Mesenteric 50

Ectasia 2 1.5

Hemorrhage 3 2.0

Pigmentation, Hemosiderin 1 1.0

Spleen 50

Hematopoietic Cell Proliferation 19 1.8

Hemorrhage 1 3.0

Pigmentation 32 1.3

Lymphoid Follicle, Atrophy 3 2.3

Thymus 48

Atrophy 18 2.1

Hemorrhage 5 1.6

INTEGUMENTARY SYSTEM

Mammary Gland 50

Fibrosis 2 2.0

Galactocele 3 2.3

Hyperplasia 24 1.5

Inflammation, Granulomatous 1 1.0

Duct, Cyst 1 1.0

Duct, Dilatation 13 1.5

Skin 50

Hyperkeratosis 2 1.0

Inflammation, Acute 2 1.0

Inflammation, Chronic 1 2.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|
| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
| | 06776 | 07336 | 05669 | 07701 | 07736 | 07731 | 06736 | 07736 | 07736 | 04732 | 07735 | 07735 | 06736 | 07735 | 07734 | 07732 | 07732 | 06735 | 07362 | 07372 | | 07733 | 07733 | 07732 |
| 15 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
| | 00356 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | | 00333 | 00333 | 00333 |
| | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | 55556 | | 55556 | 55556 | 55556 |
| | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | 67890 | | 67890 | 67890 | 67890 |

| | | |
|------------------------|---|--------------|
| Ulcer | 1 | 2 1.5 |
| Epidermis, Hyperplasia | 1 | 1 1.0 |

MUSCULOSKELETAL SYSTEM

| | | |
|------|---|-----------|
| Bone | + | 50 |
|------|---|-----------|

NERVOUS SYSTEM

| | | |
|------------------------|---|-------------------------|
| Brain | + | 50 |
| Compression | 3 | 3 2 3 1 1 11 2.4 |
| Hemorrhage, Multifocal | | 2 1 2.0 |
| Peripheral Nerve | | 1 |

RESPIRATORY SYSTEM

| | | |
|-----------------------------------|---|-----------------------|
| Lung | + | 50 |
| Infiltration Cellular, Histiocyte | 1 1 1 | 1 1 1 1 22 1.0 |
| Mineralization | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | 1 1.0 |
| Nose | + | 50 |
| Inflammation, Acute | | 1 3.0 |
| Trachea | + | 50 |
| Inflammation, Chronic | | 1 1 1.0 |

SPECIAL SENSES SYSTEM

| | | |
|-----|---|-----------|
| Eye | + | 47 |
|-----|---|-----------|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS FEMALE 15 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|--------|
| | 06 | 07 | 05 | 07 | 07 | 07 | 06 | 07 | 07 | 04 | 07 | 07 | 06 | 07 | 07 | 06 | 07 | 07 | 06 | 07 | | 03 | 07 | 07 |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 35678901234567890 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 5678901234567890 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| 678901234567890 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Retina, Atrophy | | | | | | | 2 | 2 | | 2 | | | | 2 | | | | 2 | | | | | | 9 1.9 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 49 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Nephropathy | 1 | | | 1 | | | | | 1 | | 1 | | 1 | 1 | | 1 | | | | | | | 1 | 17 1.0 |
| Pigmentation | | | | | | | | | | | 1 | | | | | | | 1 | | | | | 1 | 3 1.0 |
| Pelvis, Inflammation, Chronic Active | | | | | | | | | | | | | 1 | | | | 1 | | | | | | | 6 1.0 |
| Pelvis, Mineralization | 1 | 1 | 1 | | 1 | 1 | | | 1 | 1 | | | 1 | | 1 | | | 1 | 1 | 1 | 1 | | | 23 1.0 |
| Renal Tubule, Dilatation | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 49 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | A | + | + | M | + | A | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | |
| Intestine Large, Rectum | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | M | + | + | |
| Intestine Small, Duodenum | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | M | + | A | + | + | |
| Intestine Small, Ileum | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + | A | + | + | M | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | A | + | + | M | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | A | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | X | | | | | X | | X | | | | | | | | | | | | |
| Basophilic Focus, Multiple | X | | X | | X | | X | X | X | | X | | X | | X | | | | | | X | X | X | |
| Cholangiofibrosis | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus, Multiple | X | | | | X | X | | X | X | X | X | | X | X | | X | X | | X | | | X | X | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eosinophilic Focus | | | | | | X | X | | | | X | | X | | | | | | | | | | X | |
| Eosinophilic Focus, Multiple | X | | X | | X | | | X | X | X | | | | | X | | X | X | | X | | | | |
| Fatty Change | 1 | 2 | 1 | 1 | 1 | | | 2 | 1 | | 1 | 1 | 3 | 1 | 1 | 2 | 1 | | | | 1 | 1 | 2 | 1 |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Nodular | | | | | | | | | | | | 2 | | | | 2 | | | | | | | 3 | |
| Bile Duct, Cyst | | | | | 3 | 2 | | | | | | | | | | | | | | | | | X | |
| Bile Duct, Cyst, Multiple | | | | | | | | | | | | | | | | | 2 | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|
| | 0735 | 0033 | 0035 | 0647 | 0779 | 0769 | 0779 | 0769 | 0579 | 0779 | 0779 | 0769 | 0779 | 0779 | 0769 | 0779 | 0779 | 0769 | 0779 | 0779 | 0669 | 0779 | 0779 | 0669 | | | 0579 |
| Bile Duct, Hyperplasia | 1 | | | 2 | 1 | | 1 | | | 1 | | | | | | | | | | 2 | 1 | | | | | | |
| Bile Duct, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | 4 | | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Hepatocyte, Necrosis | | | | 1 | | | | 1 | | 2 | | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | A | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | |
| Duct, Parotid Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parotid Gland, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sublingual Gland, Ectopic Tissue | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Submandibular Gland, Ectopic Tissue | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Submandibular Gland, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|---|--|
| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | |
| | 7 | 0 | 7 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 0 | 6 | 5 | 7 | | | |
| 50 MG/KG | 3 | 0 | 3 | 4 | 2 | 2 | 7 | 2 | 5 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 0 | 2 | 2 | 4 | 2 | 0 | 3 | 3 | | | |
| | 5 | 3 | 5 | 7 | 9 | 9 | 7 | 9 | 3 | 6 | 6 | 6 | 9 | 6 | 6 | 6 | 2 | 9 | 5 | 9 | 3 | 0 | 7 | 5 | | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | 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 | 0 | | |
| | 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 | 4 | | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 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 | 7 | 8 | | |
| Pars Distalis, Hyperplasia, Focal | | | | | 1 | | 2 | | | | | | 1 | | | | | 2 | | | | | | | | | |
| Pars Distalis, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Nervosa, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | A | + | + | M | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | | | |
| Mineralization | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 2 | | 1 | | 2 | 1 | | 2 | 1 | 2 | 2 | 2 | | 2 | 2 | 2 | | 1 | 1 | | 2 | | 2 | 1 | 2 | | |
| Follicle, Hypertrophy | | 3 | 2 | | 2 | | | | | 3 | 2 | 2 | 2 | 1 | 1 | 2 | | 2 | 2 | | 1 | | | 1 | 2 | | |
| Follicular Cell, Hyperplasia | | | | | 1 | | | 1 | | 2 | | 1 | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | + | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Cyst | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 4 | | 3 | | | 4 | | | | | 2 | | | | | | | | | | | | | | | | |
| Hyperplasia, Tubulostromal | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | 2 | 1 | | | | | | |
| Follicle, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granulosa Cell, Hyperplasia, Multifocal | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WISTAR HAN RATS FEMALE 50 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 |
| | | 7 | 0 | 7 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 0 | 6 | 5 | 7 | 3 | 7 | 3 | 5 | 3 | 5 |
| | | 3 | 0 | 3 | 4 | 2 | 2 | 7 | 2 | 5 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 0 | 2 | 2 | 4 | 4 | 2 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 5 | 3 | 5 | 7 | 9 | 9 | 7 | 9 | 3 | 6 | 6 | 6 | 9 | 6 | 6 | 6 | 2 | 9 | 9 | 5 | 9 | 9 | 5 | 9 | 3 | 0 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Cyst, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Decidual Reaction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervix, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 3 | | | | | | | 3 | | | | | | 1 | | 1 | | | | 4 | | | | 1 | | | | | | | | | | | | 4 | | |
| 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 | M | M | M | M | M | M | M | M | M | M | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | 2 | 3 | | | 2 | | | 2 | 2 | | | | | | | | 2 | 2 | | | | | | | | | | | | | | | | 2 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation, Hemosiderin | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 9 | 0 6 4 5 | 0 7 2 9 | 0 6 4 5 | 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 | | |

Bone +

NERVOUS SYSTEM

Brain +
Compression 2 1 3 3 2 3 4

RESPIRATORY SYSTEM

Lung +
Infiltration Cellular, Histiocyte 1 2
Inflammation, Acute 1
Inflammation, Chronic
Mineralization
Nose + + + + + + + + + + + + + + + + + + + A + + + + +
Inflammation, Acute 3
Trachea + + + + + + + + + + + + + + + + + + + A + A + + +

SPECIAL SENSES SYSTEM

Eye + + + M + + A + + + + + + + + + A + + A + + + + + +
Retina, Atrophy 1 2 2 2 2
Harderian Gland +

URINARY SYSTEM

Kidney + + + + + + + + + + + + + + + + M + + A + + + + + +
Casts Protein 1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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...) |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0735 | 0033 | 0075 | 0064 | 0072 | 0076 | 0077 | 0057 | 0075 | 0073 | 0073 | 0066 | 0077 | 0077 | 0077 | 0067 | 0073 | 0073 | 0066 | 0072 | 0072 | 0044 | 0072 | 0006 | 0057 | | |
| Cyst | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst, Multiple | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | 3 | | | | | | | 3 | | | | | | | | 2 | | | | | |
| Nephropathy | | | 1 | | | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | | | | | | 1 | | | | | 1 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Chronic Active | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | |
| Pelvis, Mineralization | 2 | | 1 | | | 1 | | 1 | 1 | 1 | | | 1 | | | 1 | 1 | | | | 1 | | | | 1 | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | + | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Cecum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | M | + | A | + | + | + | 40 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 46 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 45 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | M | + | + | + | + | + | 42 | |
| Intestine Small, Ileum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | M | + | + | + | + | + | 41 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | M | + | A | + | + | + | 42 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Angiectasis | | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | 2 | 1.0 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | |
| Basophilic Focus, Multiple | X | X | | X | X | X | | X | X | X | | X | | X | X | X | | X | | | | X | | | 28 | | |
| Cholangiofibrosis | | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | 3 | 2.3 |
| Clear Cell Focus, Multiple | | | X | X | X | | | | X | X | | X | | X | X | X | X | X | X | X | X | X | X | X | X | 31 | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Eosinophilic Focus | | | | X | | | | | X | | | X | X | X | | | | | | | | X | X | | | 12 | |
| Eosinophilic Focus, Multiple | X | X | | X | | X | X | | X | | | | | | | | X | X | X | | | | | | | 19 | |
| Fatty Change | 2 | 1 | 1 | | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 39 | 1.3 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hyperplasia, Nodular | | | | 2 | | | | | | | | | | | | | 3 | | | 3 | 3 | | | | | 7 | 2.6 |
| Bile Duct, Cyst | | | | | | | | | | 1 | | 2 | | | | | | | | | | 2 | | | | 6 | 2.0 |
| Bile Duct, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|-----------------|-----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| 50 MG/KG | 5 | 7 | 3 | 7 | 7 | 7 | 3 | 6 | 6 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 2 | 4 | 7 | 5 | 7 | | |
| | 9 | 3 | 9 | 3 | 2 | 2 | 8 | 8 | 1 | 3 | 3 | 8 | 2 | 6 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 4 | 3 | | |
| | 7 | 5 | 6 | 2 | 9 | 9 | 5 | 6 | 7 | 5 | 5 | 7 | 7 | 9 | 5 | 5 | 5 | 5 | 5 | 0 | 6 | 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 | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| | 9 | 0 | 2 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 5 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 8 | 9 | * TOTALS | |
| Bile Duct, Hyperplasia | | | | | 1 | 1 | | | 3 | 1 | 2 | | | | 1 | 1 | | | | | | | | 14 1.4 | |
| Bile Duct, Inflammation, Chronic Active | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Hepatocyte, Hypertrophy | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 45 3.9 | |
| Hepatocyte, Necrosis | | | | | | | 2 | 1 | | | | | | 1 | | | | | 2 | | 1 | | | 8 1.4 | |
| Oval Cell, Hyperplasia | | | | | | 1 | | | 2 | | | | | | | | 1 | 2 | 1 | | 1 | 1 | | 10 1.2 | |
| Mesentery | + | | | + | | | | | | | | | + | + | + | | | | | | | | | 6 | |
| Fat, Necrosis | 1 | | | 2 | | | | | | | | | 1 | 2 | 2 | | | | | | | | | 6 1.5 | |
| Oral Mucosa | | | | | | | | | | | | | | | + | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 47 |
| Atrophy | | | | | | | | | 1 | 1 | | | | | | 1 | | | | | | | 1 | 5 1.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Duct, Parotid Gland, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Parotid Gland, Atrophy | | | | | | | | 2 | | | 1 | | | | | | | | | | | | 1 | 5 1.4 | |
| Parotid Gland, Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Parotid Gland, Necrosis | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 1.0 | |
| Parotid Gland, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | 1 | | 2 1.0 | |
| Sublingual Gland, Ectopic Tissue | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Submandibular Gland, Ectopic Tissue | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Submandibular Gland, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hyperkeratosis | | | 2 | | | | | | | | | | | | | 1 | | | | | | | | 4 2.0 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Inflammation, Chronic Active | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mineralization | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Ulcer | | | | 2 | | | | | | | | | | | | | | | | | | | | 3 1.3 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

| WISTAR HAN RATS FEMALE 50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-------|---|--|
| | 0597 | 0735 | 0396 | 0732 | 0772 | 0373 | 0668 | 0661 | 0773 | 0773 | 0662 | 0667 | 0669 | 0775 | 0775 | 0775 | 0775 | 0775 | 0224 | 0475 | | 0577 | | |
| ANIMAL ID | 0040 | 0044 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0041 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | | | |
| Epithelium, Hyperplasia | | | 2 | | | | | | | | | | | | | | | 1 | | | | 4 2.0 | | |
| Stomach, Glandular Inflammation, Chronic Mineralization Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 46 1 2.0 7 1.0 1 1.0 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | + | | 3 |
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 4 1.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex Angiectasis Hematopoietic Cell Proliferation Hyperplasia, Focal Hypertrophy, Focal Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 34 1.3 1 1.0 19 1.2 14 1.3 9 1.2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Pituitary Gland Pars Distalis, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 7 | 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 4 0 9 | 0 0 4 0 | 0 0 4 1 | 0 0 4 1 | 0 0 4 1 | 0 0 4 1 | 0 0 4 1 | 0 0 4 1 | 0 0 4 2 | 0 0 4 2 | 0 0 4 2 | 0 0 4 2 | 0 0 4 2 | 0 0 4 2 | 0 0 4 3 | 0 0 4 3 | 0 0 4 3 | 0 0 4 3 | 0 0 4 3 | 0 0 4 3 | 0 0 4 3 | 0 0 4 4 | 0 0 4 4 | | |
| Pars Distalis, Hyperplasia, Focal | | | | | | 1 | | | | | | | 1 | | | | | | | | | | | 9 | |
| Pars Distalis, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | |
| Pars Intermedia, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Nervosa, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Thyroid Gland | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | 42 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| C-cell, Hyperplasia | | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 1 | 3 | 1 | 2 | | 3 | | 3 | 38 | |
| Follicle, Hypertrophy | | 1 | 1 | 2 | 1 | 1 | | 2 | 4 | 3 | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 3 | | 3 | 35 | |
| Follicular Cell, Hyperplasia | | | | | | 2 | | | | | | | 1 | | | | | | | | | | | 6 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 47 |
| Inflammation, Chronic Active | | | | | | 3 | | | | | | | | | | | | | 3 | | | | | 2 | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | 1 | | | | | 3 | 3 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 46 | |
| Atrophy | | | | | | | | | | | | | | | | | | | 3 | | | | 3 | 2 | |
| Cyst | | | | | | 2 | 2 | | | | | | 2 | 1 | | | | | | | | | | 8 | |
| Hyperplasia, Tubulostromal | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Follicle, Cyst | | 2 | | 2 | | | | | | | | | | | | 1 | | | | | | | | 5 | |
| Follicle, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Granulosa Cell, Hyperplasia, Multifocal | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 47 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 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 5 | 0 0 4 1 6 | 0 0 4 1 7 | 0 0 4 1 8 | 0 0 4 1 9 | 0 0 4 2 0 | 0 0 4 2 1 | 0 0 4 2 2 | 0 0 4 2 3 | 0 0 4 2 4 | 0 0 4 2 5 | 0 0 4 2 6 | 0 0 4 3 7 | 0 0 4 3 8 | 0 0 4 3 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|---|-----|---|---|----|-----|---|
| Cyst, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | | | |
| Decidual Reaction | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | | | | | | | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | | | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 4 | 1.3 | | | | | |
| Cervix, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 2.5 | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | 3 | 2 | 4 | 2 | 14 | 2.4 | |
| 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 | | | | | | | | | | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|----|-----|---|-----|---|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 46 | | | | | | | | |
| Fibrosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | 3 | 2 | | | | | | | | | | | | | | | | | 2 | 11 | 2.2 | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | | | | | |
| Iliac, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | |
| Mediastinal, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 4 | 1.5 | | |
| Pancreatic, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Popliteal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Popliteal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 | | |
| Popliteal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 3 | 1.0 | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 3 | 2 | 2 | 2.0 |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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

Lab: SRI

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

Ectasia 1 1.0
Hemorrhage 3 1 3.0

Spleen + 45
Angiectasis 1 2.0
Hematopoietic Cell Proliferation 1 3 2 3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 17 1.8
Pigmentation 2 1 2 1 1 2 2 1 2 1 2 1 2 1 2 2 3 3 3 3 3 3 3 27 1.5
Lymphoid Follicle, Atrophy 1 1.0

Thymus + M + 46
Atrophy 3 3 1 9 2.2
Cyst 1 3.0
Hemorrhage 4 1 4.0

INTEGUMENTARY SYSTEM

Mammary Gland + I + 48
Galactocele 1 2 3 1.7
Hyperplasia 2 2 1 2 2 1 2 1 1 2 19 1.7
Inflammation, Chronic Active 2 2.0
Duct, Dilatation 2 6 1.3
Duct, Inflammation, Acute 1 1.0

Skin + 49
Inflammation, Chronic Active 1 2.0
Ulcer 1 2.0
Epidermis, Hyperplasia 2 1.5

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 7 | 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 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 |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Compression | 1 | | 3 | | | | | 1 | 3 | | | 1 | 3 | | | | | | | | | | | 13 2.3 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Infiltration Cellular, Histiocyte | 1 | 2 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 | | | 2 | 1 | 30 1.1 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Mineralization | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 1.0 |
| Nose | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Retina, Atrophy | | | | | | 1 | | | | | | 2 | | 2 | | | 2 | | | | | 2 | | 10 1.8 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Casts Protein | | | | | | | | | | | | | | | | | 1 | | | | | | | 2 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/12/2014

Time Report Requested: 10:27:34

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 | 0372 | 0772 | 0773 | 0773 | 0636 | 0666 | 0666 | 0776 | 0776 | 0666 | 0666 | 0776 | 0776 | 0776 | 0776 | 0776 | 0224 | 0475 | | 0057 |
| ANIMAL ID | 0040 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hydronephrosis | | | 3 | | | | 3 | | 1 | | | | | | | | | | | | | 6 2.5 |
| Nephropathy | 1 | | | | | | 1 | | | | | | | | 1 | | 1 | | | | 2 | 15 1.1 |
| Pigmentation | | | | | | | | | | | | | 1 | | | | 1 | | 1 | | 1 | 4 1.0 |
| Pelvis, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | 1 | | | | 3 1.0 |
| Pelvis, Mineralization | | | | 1 | 1 | | | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | | 19 1.1 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | 2 | | | | 2 | | | | | | | | 2 2.0 |
| Ureter | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | 45 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | M | | 1 1.0 |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked