

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

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
Pentabromodiphenyl oxide (technical) (DE 71)  
**CAS Number:** 32534-81-9

**Date Report Requested:** 08/05/2014  
**Time Report Requested:** 10:16:02  
**First Dose M/F:** 08/26/08 / 08/26/08  
**Lab:** SRI

F\_14 Wk. SSAC\_RE

**NTP Study Number:** C20209

**Lock Date:** 08/31/2011

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** 25017 SSAC

**Removal Date Range:** ALL

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

Include 002 0 MG/KG

Include 007 50 MG/KG

**Study Gender:** Both

**TDMSE Version:** 3.0.2.1\_001

**PWG Approval Date:** NONE

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)  
Pentabromodiphenyl oxide (technical) (DE 71)  
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014  
Time Report Requested: 10:16:02  
First Dose M/F: 08/26/08 / 08/26/08  
Lab: SRI

---

Wistar Han RATS MALE

0 MG/KG

50 MG/KG

---

## Disposition Summary

Animals Initially In Study	60	60
Scheduled Sacrifice	10	10
Early Deaths		
Survivors		
Animals Examined Microscopically	10	10

---

## ALIMENTARY SYSTEM

Esophagus	(10)	(10)
Intestine Large, Cecum	(10)	(10)
Intestine Large, Colon	(10)	(10)
Intestine Large, Rectum	(10)	(10)
Intestine Small, Duodenum	(10)	(10)
Intestine Small, Ileum	(10)	(10)
Intestine Small, Jejunum	(10)	(10)
Liver	(10)	(10)
Fatty Change	2 (20%)	8 (80%)
Hepatocyte, Hypertrophy		10 (100%)
Mesentery	(0)	(1)
Fibrosis, Focal		1 (100%)
Oral Mucosa	(0)	(1)
Pancreas	(10)	(10)
Atrophy	1 (10%)	2 (20%)
Salivary Glands	(10)	(10)
Stomach, Forestomach	(10)	(10)
Stomach, Glandular	(10)	(10)

---

## CARDIOVASCULAR SYSTEM

Blood Vessel	(0)	(1)
Heart	(10)	(10)
Cardiomyopathy	1 (10%)	

---

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:16:02

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

Lab: SRI

---

Wistar Han RATS MALE

0 MG/KG

50 MG/KG

---

#### ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(10)
Accessory Adrenal Cortical Nodule	1 (10%)	2 (20%)
Vacuolization Cytoplasmic	1 (10%)	1 (10%)
Adrenal Medulla	(10)	(10)
Vacuolization Cytoplasmic		1 (10%)
Islets, Pancreatic	(10)	(10)
Parathyroid Gland	(10)	(10)
Pituitary Gland	(10)	(9)
Thyroid Gland	(10)	(10)
Follicle, Hypertrophy		4 (40%)

---

#### GENERAL BODY SYSTEM

None

---

#### GENITAL SYSTEM

Epididymis	(10)	(10)
Preputial Gland	(10)	(10)
Inflammation, Chronic	9 (90%)	8 (80%)
Prostate	(10)	(10)
Inflammation, Chronic	2 (20%)	3 (30%)
Seminal Vesicle	(10)	(10)
Testes	(10)	(10)

---

#### HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(10)
Lymph Node	(1)	(1)
Pigmentation		1 (100%)
Lymph Node, Mandibular	(10)	(10)
Lymph Node, Mesenteric	(10)	(10)

---

a - Number of animals examined microscopically at site and number of animals with lesion

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)  
Pentabromodiphenyl oxide (technical) (DE 71)  
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014  
Time Report Requested: 10:16:02  
First Dose M/F: 08/26/08 / 08/26/08  
Lab: SRI

---

Wistar Han RATS MALE	0 MG/KG	50 MG/KG
Spleen	(10)	(10)
Thymus	(10)	(10)
<hr/>		
INTEGUMENTARY SYSTEM		
Mammary Gland	(10)	(10)
Skin	(10)	(10)
<hr/>		
MUSCULOSKELETAL SYSTEM		
Bone	(10)	(10)
<hr/>		
NERVOUS SYSTEM		
Brain	(10)	(10)
<hr/>		
RESPIRATORY SYSTEM		
Lung	(10)	(10)
Inflammation, Chronic	2 (20%)	4 (40%)
Metaplasia, Osseous		1 (10%)
Alveolus, Infiltration Cellular, Histiocyte		1 (10%)
Nose	(10)	(10)
Trachea	(10)	(10)
<hr/>		
SPECIAL SENSES SYSTEM		
Eye	(10)	(10)
Harderian Gland	(10)	(10)
<hr/>		
URINARY SYSTEM		

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:16:02

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

Lab: SRI

---

**Wistar Han RATS MALE**

**0 MG/KG**

**50 MG/KG**

---

Kidney  
Casts Protein  
Hydronephrosis  
Inflammation, Chronic  
Renal Tubule, Vacuolization Cytoplasmic  
Urinary Bladder

(10)

1 (10%)

1 (10%)

(10)

(10)

1 (10%)

3 (30%)

1 (10%)

(10)

---

\*\*\* END OF MALE \*\*\*

a - Number of animals examined microscopically at site and number of animals with lesion

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)  
Pentabromodiphenyl oxide (technical) (DE 71)  
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014  
Time Report Requested: 10:16:02  
First Dose M/F: 08/26/08 / 08/26/08  
Lab: SRI

---

Wistar Han RATS FEMALE

0 MG/KG

50 MG/KG

---

## Disposition Summary

Animals Initially In Study	60	60
Scheduled Sacrifice	10	10
Early Deaths		
Survivors		
Animals Examined Microscopically	10	10

---

## ALIMENTARY SYSTEM

Esophagus	(10)	(10)
Intestine Large, Cecum	(10)	(10)
Intestine Large, Colon	(10)	(10)
Intestine Large, Rectum	(10)	(10)
Intestine Small, Duodenum	(10)	(10)
Intestine Small, Ileum	(10)	(10)
Intestine Small, Jejunum	(10)	(10)
Liver	(9)	(10)
Fatty Change		3 (30%)
Hepatocyte, Hypertrophy		10 (100%)
Oral Mucosa	(1)	(0)
Pancreas	(10)	(10)
Atrophy	1 (10%)	
Salivary Glands	(10)	(10)
Stomach, Forestomach	(10)	(10)
Stomach, Glandular	(10)	(10)

---

## CARDIOVASCULAR SYSTEM

Blood Vessel	(1)	(0)
Heart	(10)	(10)

---

## ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(10)
----------------	------	------

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20209 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/Wistar Han

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 08/05/2014

Time Report Requested: 10:16:02

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

Lab: SRI

---

**Wistar Han RATS FEMALE**

**0 MG/KG**

**50 MG/KG**

---

Accessory Adrenal Cortical Nodule	3 (30%)	2 (20%)
Adrenal Medulla	(9)	(10)
Islets, Pancreatic	(10)	(10)
Parathyroid Gland	(10)	(10)
Pituitary Gland	(10)	(10)
Thyroid Gland	(10)	(10)
Follicle, Hypertrophy	1 (10%)	5 (50%)

---

**GENERAL BODY SYSTEM**

None

---

**GENITAL SYSTEM**

Clitoral Gland	(10)	(10)
Inflammation, Chronic	7 (70%)	6 (60%)
Inflammation, Chronic Active		1 (10%)
Ovary	(10)	(10)
Uterus	(10)	(10)

---

**HEMATOPOIETIC SYSTEM**

Bone Marrow	(10)	(10)
Lymph Node	(2)	(2)
Pigmentation	1 (50%)	
Popliteal, Pigmentation		2 (100%)
Lymph Node, Mandibular	(10)	(10)
Hyperplasia, Lymphoid	1 (10%)	
Lymph Node, Mesenteric	(10)	(10)
Spleen	(10)	(10)
Hematopoietic Cell Proliferation		1 (10%)
Pigmentation		1 (10%)
Thymus	(10)	(10)

---

a - Number of animals examined microscopically at site and number of animals with lesion

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)  
Pentabromodiphenyl oxide (technical) (DE 71)  
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014  
Time Report Requested: 10:16:02  
First Dose M/F: 08/26/08 / 08/26/08  
Lab: SRI

---

Wistar Han RATS FEMALE	0 MG/KG	50 MG/KG
<b>INTEGUMENTARY SYSTEM</b>		
Mammary Gland	(10)	(10)
Skin	(10)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>		
Bone	(10)	(10)
Skeletal Muscle	(1)	(0)
<b>NERVOUS SYSTEM</b>		
Brain	(10)	(10)
<b>RESPIRATORY SYSTEM</b>		
Lung	(10)	(10)
Inflammation, Chronic		2 (20%)
Metaplasia, Osseous		1 (10%)
Nose	(10)	(10)
Trachea	(10)	(10)
<b>SPECIAL SENSES SYSTEM</b>		
Eye	(10)	(10)
Harderian Gland	(10)	(10)
<b>URINARY SYSTEM</b>		
Kidney	(10)	(10)
Urinary Bladder	(9)	(10)

---

a - Number of animals examined microscopically at site and number of animals with lesion



**Experiment Number:** 20209 - 03

**Test Type:** CHRONIC

**Route:** GAVAGE

**Species/Strain:** RATS/Wistar Han

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

Pentabromodiphenyl oxide (technical) (DE 71)

**CAS Number:** 32534-81-9

**Date Report Requested:** 08/05/2014

**Time Report Requested:** 10:16:02

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

**Lab:** SRI

---

**Wistar Han RATS FEMALE**

**0 MG/KG**

**50 MG/KG**

---

\*\*\* END OF REPORT \*\*\*

a - Number of animals examined microscopically at site and number of animals with lesion