

Experiment Number: 20209 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 07/23/2014
Time Report Requested: 13:18:30
First Dose M/F: 07/20/04 / 07/19/04
Lab: SRI

F1_Rev.1_R2

NTP Study Number: C20209
Lock Date: 12/07/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.0_001
PWG Approval Date: NONE

Experiment Number: 20209 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

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

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 07/23/2014

Time Report Requested: 13:18:30

First Dose M/F: 07/20/04 / 07/19/04

Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	0.01 MG/KG	5 MG/KG	50 MG/KG	100 MG/KG	500 MG/KG
-----------------------	---------	------------	---------	----------	-----------	-----------

Disposition Summary

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Hepatodiaphragmatic Nodule			1 (10%)	1 (10%)		1 (10%)
Necrosis, Focal				1 (10%)	2 (20%)	1 (10%)
Hepatocyte, Hypertrophy			9 (90%)	10 (100%)	10 (100%)	10 (100%)
Hepatocyte, Vacuolization Cytoplasmic				10 (100%)	10 (100%)	10 (100%)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Necrosis						1 (10%)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)	(10)
Erosion			1 (10%)	2 (20%)	3 (30%)	4 (40%)

CARDIOVASCULAR SYSTEM

Blood Vessel	(1)	(0)	(0)	(0)	(0)	(1)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	3 (30%)					

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

Experiment Number: 20209 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

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

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 07/23/2014

Time Report Requested: 13:18:30

First Dose M/F: 07/20/04 / 07/19/04

Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	0.01 MG/KG	5 MG/KG	50 MG/KG	100 MG/KG	500 MG/KG
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(2)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Pars Distalis, Cyst	1 (10%)					
Thyroid Gland	(10)	(9)	(10)	(10)	(10)	(10)
Follicle, Hypertrophy					1 (10%)	9 (90%)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(10)	(10)	(10)	(10)	(10)
Hypospermia						9 (90%)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(10)	(10)	(10)	(10)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Hyperplasia						2 (20%)
Lymph Node	(0)	(1)	(0)	(1)	(1)	(0)
Mediastinal, Hemorrhage				1 (100%)	1 (100%)	
Mediastinal, Hyperplasia, Lymphoid				1 (100%)	1 (100%)	
Pancreatic, Hemorrhage		1 (100%)				
Pancreatic, Hyperplasia, Lymphoid		1 (100%)				
Lymph Node, Mandibular	(0)	(0)	(0)	(0)	(0)	(1)

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

Experiment Number: 20209 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

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

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 07/23/2014

Time Report Requested: 13:18:30

First Dose M/F: 07/20/04 / 07/19/04

Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	0.01 MG/KG	5 MG/KG	50 MG/KG	100 MG/KG	500 MG/KG
Lymph Node, Mesenteric	(10)	(10)	(10)	(10)	(10)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(10)	(10)	(10)	(10)	(9)
Hemorrhage	1 (10%)				1 (10%)	
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Hemorrhage					1 (10%)	
Infiltration Cellular, Histiocyte					1 (10%)	1 (10%)
Inflammation, Chronic	2 (20%)					
Alveolar Epithelium, Hyperplasia						1 (10%)
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic	1 (10%)					

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

Experiment Number: 20209 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

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

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 07/23/2014

Time Report Requested: 13:18:30

First Dose M/F: 07/20/04 / 07/19/04

Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	0.01 MG/KG	5 MG/KG	50 MG/KG	100 MG/KG	500 MG/KG
<hr/>						
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Nephropathy	1 (10%)					2 (20%)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

*** END OF MALE ***

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

Experiment Number: 20209 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

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

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 07/23/2014

Time Report Requested: 13:18:30

First Dose M/F: 07/20/04 / 07/19/04

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	0.01 MG/KG	5 MG/KG	50 MG/KG	100 MG/KG	500 MG/KG
-------------------------	---------	------------	---------	----------	-----------	-----------

Disposition Summary

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Basophilic Focus						1 (10%)
Hepatodiaphragmatic Nodule					1 (10%)	
Necrosis, Focal	1 (10%)			1 (10%)		
Hepatocyte, Hypertrophy		2 (20%)	5 (50%)	10 (100%)	10 (100%)	10 (100%)
Hepatocyte, Vacuolization Cytoplasmic				3 (30%)	10 (100%)	10 (100%)
Mesentery	(0)	(1)	(0)	(0)	(0)	(0)
Fat, Necrosis		1 (100%)				
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)	(10)
Erosion						3 (30%)
Glands, Dilatation		1 (10%)			1 (10%)	

CARDIOVASCULAR SYSTEM

Heart	(10)	(0)	(0)	(0)	(0)	(10)
-------	------	-----	-----	-----	-----	------

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

Experiment Number: 20209 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

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

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 07/23/2014

Time Report Requested: 13:18:30

First Dose M/F: 07/20/04 / 07/19/04

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	0.01 MG/KG	5 MG/KG	50 MG/KG	100 MG/KG	500 MG/KG
Cardiomyopathy	1 (10%)					
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Accessory Adrenal Cortical Nodule	1 (10%)					
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(9)
Pituitary Gland	(9)	(0)	(0)	(0)	(0)	(10)
Pars Distalis, Cyst						1 (10%)
Thyroid Gland	(10)	(0)	(10)	(10)	(10)	(10)
Follicle, Hypertrophy				8 (80%)	9 (90%)	10 (100%)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic						2 (20%)
Ovary	(10)	(10)	(10)	(10)	(10)	(10)
Uterus	(10)	(10)	(10)	(10)	(10)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(0)	(0)	(2)	(1)	(2)	(0)
Mediastinal, Hemorrhage			1 (50%)	1 (100%)	2 (100%)	
Mediastinal, Hyperplasia, Lymphoid			1 (50%)	1 (100%)	2 (100%)	
Pancreatic, Hemorrhage			1 (50%)		1 (50%)	
Pancreatic, Pigmentation			1 (50%)		1 (50%)	

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

Experiment Number: 20209 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

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

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 07/23/2014

Time Report Requested: 13:18:30

First Dose M/F: 07/20/04 / 07/19/04

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	0.01 MG/KG	5 MG/KG	50 MG/KG	100 MG/KG	500 MG/KG
Lymph Node, Mesenteric	(10)	(9)	(10)	(10)	(10)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(10)	(10)	(10)	(9)	(10)
Atrophy						4 (40%)
Hemorrhage			1 (10%)			
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Hemorrhage		2 (20%)			1 (10%)	
Infiltration Cellular, Histiocyte					1 (10%)	1 (10%)
Inflammation, Chronic						2 (20%)
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(1)	(10)
Developmental Malformation					1 (100%)	
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)

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

Experiment Number: 20209 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

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

Pentabromodiphenyl oxide (technical) (DE 71)

CAS Number: 32534-81-9

Date Report Requested: 07/23/2014

Time Report Requested: 13:18:30

First Dose M/F: 07/20/04 / 07/19/04

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	0.01 MG/KG	5 MG/KG	50 MG/KG	100 MG/KG	500 MG/KG
<hr/>						
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Mononuclear Cell						1 (10%)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

*** END OF REPORT ***

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