

Experiment Number: 20209 - 03

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Date Report Requested: 08/12/2014

Test Type: CHRONIC

Pentabromodiphenyl oxide (technical) (DE 71)

Time Report Requested: 10:27:35

Route: GAVAGE

CAS Number: 32534-81-9

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

Species/Strain: RATS/Wistar Han

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

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Wistar Han RATS MALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
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Disposition Summary

Animals Initially In Study	60	50	50	60
Early Deaths				
Dosing Accident	1	1		1
Moribund Sacrifice	8	7	10	12
Natural Death	4	7	2	12
Survivors				
Terminal Sacrifice	36	35	38	25
Animals Examined Microscopically	49	50	50	50

ALIMENTARY SYSTEM

Esophagus	(49)	(50)	(50)	(50)
Hyperkeratosis	1 [2.0]	1 [2.0]		
Inflammation, Acute				1 [3.0]
Ulcer				1 [3.0]
Muscularis, Degeneration		1 [2.0]		
Muscularis, Hemorrhage		1 [2.0]		
Periesophageal Tissue, Inflammation, Granulomatous, Chronic	1 [4.0]			
Intestine Large, Cecum	(46)	(43)	(49)	(43)
Inflammation, Chronic		1 [2.0]		
Intestine Large, Colon	(48)	(45)	(50)	(48)
Inflammation, Chronic		1 [1.0]		
Intestine Large, Rectum	(48)	(46)	(49)	(47)
Inflammation, Acute				2 [1.5]
Intestine Small, Duodenum	(46)	(45)	(49)	(46)
Inflammation, Acute				1 [2.0]
Epithelium, Vacuolization Cytoplasmic	1 [3.0]			
Intestine Small, Ileum	(45)	(43)	(49)	(42)
Inflammation, Focal, Chronic Active			1 [2.0]	
Peyer's Patch, Hyperplasia			1 [2.0]	
Intestine Small, Jejunum	(45)	(44)	(50)	(46)
Ulcer		1 [2.0]		
Epithelium, Vacuolization Cytoplasmic	1 [4.0]			

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Wistar Han RATS MALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Peyer's Patch, Hyperplasia			1 [1.0]	
Liver	(49)	(50)	(50)	(50)
Angiectasis			1 [1.0]	1 [1.0]
Basophilic Focus	8	4	3	7
Basophilic Focus, Multiple	8	17	8	4
Cholangiofibrosis			1 [2.0]	1 [2.0]
Clear Cell Focus	1	1		2
Clear Cell Focus, Multiple	38	36	35	27
Congestion	4 [1.0]	3 [1.0]		2 [1.5]
Degeneration, Cystic			1 [1.0]	1 [1.0]
Eosinophilic Focus	3	2	10	7
Eosinophilic Focus, Multiple		1	2	8
Fatty Change	32 [1.5]	37 [1.5]	48 [1.8]	48 [2.1]
Fibrosis	1 [1.0]			1 [2.0]
Hematopoietic Cell Proliferation			1 [1.0]	
Hemorrhage	2 [2.0]		1 [1.0]	
Hepatodiaphragmatic Nodule		1		1
Hyperplasia, Nodular			3 [1.7]	
Inflammation, Chronic	1 [1.0]	2 [1.0]		5 [1.2]
Mixed Cell Focus	2	2		2
Mixed Cell Focus, Multiple		1	1	2
Pigmentation			1 [2.0]	6 [1.0]
Thrombosis	1 [1.0]			
Artery, Degeneration			1 [1.0]	
Artery, Inflammation, Chronic				1 [2.0]
Bile Duct, Cyst				1 [2.0]
Bile Duct, Hyperplasia	16 [1.1]	17 [1.0]	16 [1.1]	16 [1.3]
Hepatocyte, Hypertrophy	1 [1.0]	44 [2.0]	50 [3.0]	50 [3.8]
Hepatocyte, Necrosis	4 [1.3]	2 [2.0]	1 [1.0]	5 [1.4]
Oval Cell, Hyperplasia			2 [1.0]	3 [1.0]
Mesentery	(12)	(6)	(13)	(10)
Hemorrhage	2 [3.0]	1 [2.0]		1 [3.0]
Inflammation, Chronic			1 [2.0]	
Fat, Necrosis	9 [1.7]	5 [1.6]	11 [1.8]	9 [2.2]
Oral Mucosa	(1)	(0)	(0)	(0)
Pancreas	(46)	(47)	(50)	(49)

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Wistar Han RATS MALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Atrophy	3 [1.0]	5 [1.0]	7 [1.0]	1 [1.0]
Basophilic Focus			1 [1.0]	
Basophilic Focus, Multiple				1 [1.0]
Hyperplasia		1 [1.0]	2 [1.0]	1 [2.0]
Inflammation, Acute		1 [1.0]		
Inflammation, Chronic	1 [1.0]			
Pigmentation, Hemosiderin	1 [1.0]			
Duct, Cyst		1 [4.0]		
Duct, Cyst, Multiple			2 [1.5]	
Salivary Glands	(46)	(48)	(50)	(50)
Duct, Parotid Gland, Cyst		1 [2.0]	2 [1.5]	
Duct, Parotid Gland, Inflammation, Acute	1 [1.0]	1 [1.0]		4 [1.3]
Duct, Submandibular Gland, Inflammation, Acute				1 [1.0]
Parotid Gland, Atrophy	2 [2.5]	2 [1.0]	4 [1.8]	13 [1.4]
Parotid Gland, Basophilic Focus				1 [1.0]
Parotid Gland, Hyperplasia, Focal	1 [1.0]			
Parotid Gland, Inflammation, Chronic	1 [1.0]	1 [1.0]	1 [1.0]	
Parotid Gland, Vacuolization Cytoplasmic	4 [1.5]	4 [2.0]	7 [1.9]	17 [1.7]
Sublingual Gland, Atrophy				1 [2.0]
Sublingual Gland, Vacuolization Cytoplasmic				1 [1.0]
Submandibular Gland, Inflammation, Acute				1 [1.0]
Submandibular Gland, Inflammation, Chronic		1 [1.0]		
Submandibular Gland, Vacuolization Cytoplasmic				1 [2.0]
Stomach, Forestomach	(49)	(50)	(50)	(50)
Edema		1 [2.0]		2 [2.5]
Erosion	1 [1.0]	1 [1.0]		
Hyperkeratosis	9 [2.0]	5 [1.8]	5 [2.2]	17 [1.8]
Inflammation, Acute	1 [1.0]	2 [1.0]	1 [1.0]	4 [1.3]
Inflammation, Chronic	3 [2.0]	1 [1.0]	2 [2.0]	4 [1.8]
Inflammation, Chronic Active	3 [2.0]	2 [2.0]	2 [2.0]	3 [2.0]
Ulcer	3 [1.7]	1 [3.0]	3 [1.3]	5 [1.8]
Epithelium, Hyperplasia	8 [2.6]	6 [2.0]	5 [2.8]	17 [2.1]
Stomach, Glandular	(48)	(46)	(50)	(49)
Cyst			1 [2.0]	

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Wistar Han RATS MALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Fibrosis		1 [2.0]		
Inflammation, Multifocal, Chronic		1 [2.0]		
Inflammation, Acute			1 [1.0]	2 [1.0]
Inflammation, Chronic				1 [2.0]
Mineralization	7 [1.0]	3 [1.0]	5 [1.0]	2 [1.0]
Tongue	(0)	(1)	(0)	(0)
Infiltration Cellular		1 [2.0]		
Tooth	(1)	(0)	(0)	(0)

CARDIOVASCULAR SYSTEM

Blood Vessel	(0)	(2)	(0)	(0)
Angiectasis		1 [2.0]		
Heart	(49)	(50)	(50)	(50)
Cardiomyopathy	33 [1.5]	32 [1.4]	34 [1.4]	29 [1.4]
Inflammation, Acute				1 [2.0]
Necrosis, Multifocal				1 [1.0]
Pigmentation, Hemosiderin				1 [1.0]
Thrombosis				1 [3.0]
Endocardium, Hyperplasia		1 [2.0]		
Epicardium, Inflammation, Granulomatous	1 [4.0]			
Epicardium, Inflammation, Chronic				1 [1.0]
Pericardium, Inflammation, Granulomatous				1 [2.0]
Pericardium, Necrosis		1 [3.0]		

ENDOCRINE SYSTEM

Adrenal Cortex	(49)	(49)	(50)	(49)
Accessory Adrenal Cortical Nodule				1 [2.0]
Angiectasis	13 [1.0]	17 [1.1]	15 [1.3]	18 [1.1]
Degeneration, Cystic	1 [2.0]			
Hyperplasia, Focal	13 [1.2]	10 [1.2]	18 [1.2]	16 [1.2]
Hypertrophy, Focal	9 [1.0]	11 [1.1]	7 [1.0]	8 [1.0]
Necrosis, Focal				1 [1.0]
Vacuolization Cytoplasmic	12 [1.0]	9 [1.2]	10 [1.1]	17 [1.1]

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Wistar Han RATS MALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Adrenal Medulla	(49)	(48)	(50)	(49)
Infiltration Cellular, Eosinophil		1 [3.0]		
Islets, Pancreatic	(49)	(49)	(50)	(50)
Hyperplasia	1 [1.0]			1 [1.0]
Parathyroid Gland	(47)	(49)	(50)	(50)
Cyst		2 [1.0]		1 [1.0]
Cyst, Multiple	1 [3.0]			
Hyperplasia, Focal		1 [3.0]	2 [1.0]	
Pituitary Gland	(49)	(49)	(50)	(50)
Pars Distalis, Cyst	3	3	4	4
Pars Distalis, Cyst, Multiple	1		1	
Pars Distalis, Hyperplasia, Focal	15 [1.3]	11 [1.1]	13 [1.1]	8 [1.4]
Pars Intermedia, Cyst			1	
Pars Intermedia, Hemorrhage	1 [2.0]			
Pars Intermedia, Hyperplasia, Focal	2 [1.5]		1 [1.0]	
Pars Nervosa, Inflammation, Chronic	2 [1.5]			2 [2.5]
Thyroid Gland	(45)	(45)	(48)	(46)
Cyst	1	1		
Mineralization			1 [1.0]	
C-cell, Hyperplasia	44 [1.5]	41 [1.7]	47 [2.1]	44 [1.9]
Follicle, Hypertrophy	1 [2.0]	26 [1.3]	34 [1.1]	23 [1.4]
Follicular Cell, Hyperplasia	8 [1.1]	5 [1.6]	5 [1.2]	7 [1.6]

GENERAL BODY SYSTEM

Tissue NOS	(3)	(3)	(2)	(1)
Fibrosis	1 [2.0]		1 [2.0]	1 [3.0]
Inflammation, Chronic Active	1 [4.0]			
Fat, Necrosis		1 [2.0]		

GENITAL SYSTEM

Epididymis	(49)	(50)	(50)	(50)
Inflammation, Chronic				3 [1.0]
Vacuolization Cytoplasmic	1 [2.0]			

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Wistar Han RATS MALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Bilateral, Granuloma Sperm		1 [2.0]		
Preputial Gland	(49)	(49)	(50)	(50)
Inflammation, Granulomatous, Chronic	1 [1.0]			
Inflammation, Chronic	3 [1.0]	2 [1.0]		2 [1.0]
Inflammation, Chronic Active		4 [1.5]	6 [1.5]	2 [3.0]
Mineralization	1 [1.0]			
Duct, Ectasia	2 [2.0]	2 [1.5]	5 [2.2]	15 [2.2]
Prostate	(49)	(50)	(50)	(50)
Hyperplasia	1 [1.0]			
Inflammation, Granulomatous	1 [2.0]			
Inflammation, Chronic Active	17 [1.2]	20 [1.3]	28 [1.4]	27 [1.3]
Mineralization			1 [1.0]	
Vacuolization Cytoplasmic Epithelium, Hyperplasia		1 [1.0]		1 [1.0]
Seminal Vesicle	(49)	(46)	(50)	(49)
Hyperplasia				1 [2.0]
Inflammation, Acute	1 [1.0]	1 [2.0]		2 [1.5]
Inflammation, Chronic Active		1 [2.0]	1 [3.0]	1 [2.0]
Testes	(49)	(49)	(50)	(50)
Cyst				1 [2.0]
Degeneration	14 [2.4]	11 [2.8]	12 [2.8]	6 [1.8]
Inflammation, Acute			1 [1.0]	
Mineralization			1 [1.0]	
Interstitial Cell, Hyperplasia, Focal			1 [1.0]	
Interstitial Cell, Hyperplasia, Multifocal		1 [1.0]		

HEMATOPOIETIC SYSTEM

Bone Marrow	(49)	(48)	(50)	(50)
Hyperplasia		1 [2.0]		
Lymph Node	(2)	(6)	(5)	(6)
Ectasia		1 [2.0]		
Mediastinal, Congestion		1 [3.0]		
Mediastinal, Ectasia			2 [2.5]	2 [1.5]
Mediastinal, Hemorrhage	1 [3.0]	2 [1.5]	1 [1.0]	2 [2.0]

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Wistar Han RATS MALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Mediastinal, Hyperplasia, Plasma Cell	1 [3.0]			
Mediastinal, Pigmentation, Hemosiderin		1 [2.0]	1 [1.0]	1 [2.0]
Pancreatic, Ectasia			1 [1.0]	
Pancreatic, Inflammation, Chronic				1 [3.0]
Renal, Ectasia		1 [3.0]		
Lymph Node, Mandibular	(48)	(49)	(50)	(50)
Angiectasis		1 [1.0]		
Ectasia	2 [1.5]	7 [1.4]	8 [1.3]	7 [1.3]
Hemorrhage	4 [2.0]	1 [2.0]	2 [2.0]	1 [1.0]
Hyperplasia, Plasma Cell			1 [2.0]	
Pigmentation, Hemosiderin	1 [1.0]			
Lymph Node, Mesenteric	(49)	(49)	(50)	(50)
Ectasia		2 [2.5]	2 [1.5]	1 [3.0]
Hemorrhage	2 [1.0]	1 [2.0]	1 [2.0]	4 [1.3]
Pigmentation, Hemosiderin			2 [1.5]	
Spleen	(47)	(46)	(50)	(49)
Accessory Spleen			1 [1.0]	
Fibrosis, Focal	1 [2.0]		1 [2.0]	
Hematopoietic Cell Proliferation	23 [1.3]	30 [1.2]	22 [1.2]	13 [1.5]
Hemorrhage, Focal	1 [4.0]			1 [3.0]
Pigmentation	12 [1.3]	11 [1.1]	17 [1.1]	27 [1.4]
Lymphoid Follicle, Atrophy			1 [2.0]	5 [1.8]
Thymus	(45)	(49)	(49)	(50)
Atrophy	14 [2.2]	11 [2.5]	15 [1.9]	26 [2.5]
Ectopic Parathyroid Gland			3 [1.0]	2 [1.0]
Fibrosis				1 [1.0]
Hemorrhage	1 [2.0]	3 [2.3]	1 [1.0]	3 [2.3]

INTEGUMENTARY SYSTEM

Mammary Gland	(33)	(38)	(39)	(41)
Cyst			1 [1.0]	
Galactocele		1 [2.0]		1 [2.0]
Hyperplasia			3 [1.3]	
Pigmentation, Hemosiderin	3 [1.0]	9 [1.0]	2 [1.5]	13 [1.0]

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Duct, Dilatation	4 [1.5]	1 [1.0]	1 [2.0]	1 [1.0]
Skin	(49)	(49)	(50)	(50)
Cyst Epithelial Inclusion	1 [4.0]	3	1 [2.0]	
Fibrosis		1 [2.0]		
Hyperkeratosis		3 [2.0]		
Inflammation, Granulomatous			1 [3.0]	
Inflammation, Acute	1 [2.0]	1 [1.0]		
Inflammation, Chronic	1 [1.0]			
Inflammation, Chronic Active	1 [3.0]	3 [2.3]		
Pigmentation				1 [2.0]
Ulcer	1 [2.0]	2 [2.5]		
Epidermis, Hyperplasia		4 [2.0]		

MUSCULOSKELETAL SYSTEM

Bone	(49)	(50)	(50)	(50)
Skeletal Muscle	(1)	(2)	(4)	(0)
Fibrosis			1 [1.0]	
Inflammation, Chronic Active			1 [2.0]	

NERVOUS SYSTEM

Brain	(49)	(50)	(50)	(50)
Compression	10 [2.3]	9 [1.6]	10 [2.6]	26 [2.4]
Meninges, Hyperplasia, Granulocytic			1 [2.0]	
Peripheral Nerve	(2)	(1)	(3)	(0)
Spinal Cord	(2)	(1)	(3)	(0)

RESPIRATORY SYSTEM

Lung	(49)	(50)	(50)	(50)
Hemorrhage			1 [2.0]	
Infiltration Cellular, Histiocyte	24 [1.0]	24 [1.0]	32 [1.0]	30 [1.0]
Inflammation, Granulomatous, Multifocal	1 [2.0]			

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Inflammation, Acute	2 [2.0]	1 [1.0]		1 [1.0]
Inflammation, Chronic	4 [1.0]			1 [1.0]
Mineralization			2 [1.0]	
Alveolar Epithelium, Hyperplasia	2 [2.0]	3 [1.0]	1 [1.0]	5 [1.4]
Artery, Mineralization				1 [1.0]
Bronchus, Hyperplasia, Lymphoid				2 [2.0]
Mediastinum, Inflammation, Granulomatous	1 [4.0]			
Serosa, Fibrosis				1 [1.0]
Vein, Mineralization		1 [1.0]		
Nose	(49)	(49)	(50)	(50)
Fungus	2 [2.0]		1 [2.0]	1 [2.0]
Inflammation, Acute	2 [2.0]		2 [2.0]	2 [1.5]
Inflammation, Chronic Active			1 [1.0]	1 [2.0]
Ulcer, Multifocal				1 [2.0]
Squamous Epithelium, Cyst	1 [2.0]			
Trachea	(49)	(46)	(50)	(49)
Inflammation, Acute	1 [1.0]			

SPECIAL SENSES SYSTEM

Eye	(46)	(46)	(50)	(45)
Retina, Atrophy	6 [2.0]	8 [1.9]	8 [2.0]	3 [2.0]
Harderian Gland	(49)	(49)	(50)	(50)
Atrophy			1 [1.0]	
Hyperplasia, Focal	1 [1.0]			
Lacrimal Gland	(0)	(0)	(1)	(2)
Inflammation, Chronic			1 [1.0]	1 [1.0]
Karyomegaly			1 [2.0]	2 [2.5]
Zymbal's Gland	(0)	(0)	(0)	(1)

URINARY SYSTEM

Kidney	(49)	(46)	(50)	(50)
Bacterium			1 [2.0]	
Casts Protein				1 [1.0]

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Wistar Han RATS MALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Cyst	1		3	
Cyst, Multiple			1	
Hydronephrosis	1 [3.0]	5 [1.4]	8 [2.9]	10 [2.7]
Hyperplasia, Oncocytic				1 [1.0]
Inflammation, Acute			1 [3.0]	1 [1.0]
Inflammation, Chronic				1 [1.0]
Inflammation, Chronic Active	1 [1.0]			
Nephropathy	37 [1.2]	35 [1.3]	32 [1.3]	37 [1.4]
Vacuolization Cytoplasmic				1 [4.0]
Pelvis, Inflammation, Acute				1 [2.0]
Pelvis, Inflammation, Chronic Active	22 [1.4]	14 [1.2]	8 [1.5]	2 [1.0]
Pelvis, Mineralization	18 [1.3]	5 [1.0]	5 [1.0]	3 [1.0]
Renal Tubule, Dilatation			1 [2.0]	
Renal Tubule, Hyperplasia	1 [2.0]			
Transitional Epithelium, Hyperplasia		1 [2.0]		1 [1.0]
Ureter	(1)	(0)	(0)	(0)
Cyst	1 [1.0]			
Urinary Bladder	(49)	(48)	(50)	(50)
Calculus Gross Observation				1
Inflammation, Chronic		1 [2.0]		1 [1.0]
Ulcer			1 [4.0]	
Transitional Epithelium, Hyperplasia		1 [4.0]	1 [2.0]	1 [4.0]

*** END OF MALE ***

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Pentabromodiphenyl oxide (technical) (DE 71)

Time Report Requested: 10:27:35

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	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
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Disposition Summary

Animals Initially In Study	60	50	50	60
Early Deaths				
Dosing Accident	2	1		
Moribund Sacrifice	8	10	13	11
Natural Death	3		4	10
Survivors				
Natural Death	1			
Terminal Sacrifice	36	39	33	28
Animals Examined Microscopically	50	50	50	49

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(49)
Hyperkeratosis	1 [2.0]			
Inflammation, Chronic Active	1 [3.0]			
Intestine Large, Cecum	(48)	(49)	(47)	(40)
Intestine Large, Colon	(48)	(49)	(50)	(46)
Intestine Large, Rectum	(49)	(49)	(49)	(45)
Degeneration, Fatty, Focal		1 [2.0]		
Intestine Small, Duodenum	(47)	(49)	(47)	(42)
Epithelium, Vacuolization Cytoplasmic		1 [2.0]		
Intestine Small, Ileum	(47)	(49)	(48)	(41)
Intestine Small, Jejunum	(46)	(49)	(47)	(42)
Liver	(50)	(49)	(50)	(47)
Angiectasis	1 [1.0]		4 [1.0]	2 [1.0]
Basophilic Focus	2	4	7	5
Basophilic Focus, Multiple	42	39	33	28
Cholangiofibrosis				3 [2.3]
Clear Cell Focus	2	3	1	
Clear Cell Focus, Multiple	33	18	25	31
Congestion	3 [1.7]			1 [1.0]
Cyst			1 [2.0]	
Eosinophilic Focus	5	5	10	12
Eosinophilic Focus, Multiple		2	11	19

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Time Report Requested: 10:27:35

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Species/Strain: RATS/Wistar Han

Lab: SRI

Wistar Han RATS FEMALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Fatty Change	15 [1.4]	12 [2.5]	28 [1.6]	39 [1.3]
Fibrosis			1 [1.0]	
Hematopoietic Cell Proliferation	4 [1.0]	1 [1.0]		
Hepatodiaphragmatic Nodule	4	5		1
Hyperplasia, Nodular			2 [2.5]	7 [2.6]
Inflammation, Granulomatous	1 [3.0]			
Inflammation, Chronic	1 [1.0]			
Mixed Cell Focus		1		
Pigmentation	1 [2.0]	2 [2.0]	1 [1.0]	
Bile Duct, Cyst	1 [1.0]	2 [1.5]	4 [1.5]	6 [2.0]
Bile Duct, Cyst, Multiple	1 [1.0]		1 [1.0]	1 [2.0]
Bile Duct, Fibrosis	1 [2.0]			
Bile Duct, Hyperplasia	16 [1.4]	20 [1.2]	16 [1.1]	14 [1.4]
Bile Duct, Inflammation, Chronic Active				1 [1.0]
Hepatocyte, Degeneration			1 [4.0]	
Hepatocyte, Hypertrophy		48 [1.9]	49 [3.0]	45 [3.9]
Hepatocyte, Mitosis			1 [2.0]	
Hepatocyte, Necrosis	4 [1.3]	2 [1.0]	1 [1.0]	8 [1.4]
Oval Cell, Hyperplasia	1 [1.0]	3 [1.0]	3 [1.0]	10 [1.2]
Serosa, Inflammation, Acute	1 [1.0]			
Mesentery	(10)	(7)	(9)	(6)
Congestion	1 [2.0]			
Inflammation, Granulomatous, Chronic Active		1 [4.0]		
Inflammation, Chronic	1 [1.0]			
Fat, Necrosis	8 [2.1]	6 [1.5]	5 [1.4]	6 [1.5]
Oral Mucosa	(0)	(0)	(1)	(1)
Pancreas	(50)	(49)	(49)	(47)
Atrophy	3 [1.0]	3 [1.0]	3 [1.3]	5 [1.0]
Inflammation, Granulomatous, Chronic		1 [1.0]		
Inflammation, Chronic	3 [1.3]		1 [3.0]	
Salivary Glands	(50)	(50)	(49)	(45)
Cyst	1 [4.0]			
Inflammation, Chronic	1 [1.0]		1 [1.0]	
Duct, Degeneration, Hyaline		1 [1.0]		
Duct, Parotid Gland, Inflammation, Acute	1 [1.0]	2 [1.0]	4 [2.5]	1 [1.0]

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Pentabromodiphenyl oxide (technical) (DE 71)

Time Report Requested: 10:27:35

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Species/Strain: RATS/Wistar Han

Lab: SRI

Wistar Han RATS FEMALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Duct, Submandibular Gland, Inflammation, Acute	1 [2.0]			
Parotid Gland, Atrophy	4 [1.5]	4 [2.0]	4 [1.5]	5 [1.4]
Parotid Gland, Basophilic Focus				1 [1.0]
Parotid Gland, Inflammation		1 [1.0]		
Parotid Gland, Inflammation, Acute			1 [1.0]	
Parotid Gland, Inflammation, Chronic	1 [1.0]			
Parotid Gland, Necrosis				1 [1.0]
Parotid Gland, Vacuolization Cytoplasmic	6 [2.0]	9 [1.9]	7 [1.6]	2 [1.0]
Sublingual Gland, Ectopic Tissue			1 [2.0]	1 [2.0]
Sublingual Gland, Vacuolization Cytoplasmic		1 [1.0]		
Submandibular Gland, Ectopic Tissue				1 [1.0]
Submandibular Gland, Inflammation, Acute		1 [1.0]		
Submandibular Gland, Inflammation, Chronic				1 [1.0]
Submandibular Gland, Necrosis		1 [1.0]		
Stomach, Forestomach	(50)	(49)	(50)	(48)
Edema	1 [3.0]	1 [3.0]	2 [2.5]	
Foreign Body	1 [1.0]			
Hyperkeratosis	4 [2.3]	6 [1.7]	7 [2.3]	4 [2.0]
Inflammation, Acute		3 [1.3]	1 [3.0]	
Inflammation, Chronic	1 [1.0]		3 [1.3]	2 [1.5]
Inflammation, Chronic Active	2 [2.0]	2 [2.0]	2 [2.0]	1 [2.0]
Mineralization		2 [1.0]	3 [1.0]	1 [2.0]
Ulcer	2 [1.0]	4 [2.0]	3 [2.0]	3 [1.3]
Epithelium, Hyperplasia	5 [2.0]	6 [2.3]	6 [3.0]	4 [2.0]
Stomach, Glandular	(49)	(49)	(50)	(46)
Erosion			1 [1.0]	
Inflammation, Acute		1 [1.0]	2 [1.5]	
Inflammation, Chronic				1 [2.0]
Mineralization	9 [1.0]	11 [1.1]	14 [1.0]	7 [1.0]
Necrosis			1 [1.0]	
Ulcer		1 [2.0]	1 [2.0]	1 [1.0]
Tooth	(1)	(0)	(0)	(0)
Inflammation, Chronic	1 [1.0]			

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Test Type: CHRONIC

Pentabromodiphenyl oxide (technical) (DE 71)

Time Report Requested: 10:27:35

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	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
CARDIOVASCULAR SYSTEM				
Blood Vessel	(1)	(0)	(3)	(3)
Inflammation, Acute	1 [3.0]			
Heart	(50)	(50)	(50)	(48)
Cardiomyopathy	12 [1.1]	8 [1.1]	10 [1.2]	4 [1.0]
Inflammation, Chronic	1 [2.0]			
Epicardium, Inflammation, Chronic		1 [2.0]		
Epicardium, Inflammation, Chronic Active	1 [2.0]			
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(49)	(50)	(46)
Accessory Adrenal Cortical Nodule, Multifocal		1 [2.0]		
Angiectasis	45 [1.8]	44 [1.5]	44 [1.5]	34 [1.3]
Hematopoietic Cell Proliferation	1 [1.0]		3 [1.0]	1 [1.0]
Hemorrhage	1 [2.0]			
Hyperplasia, Focal	8 [1.1]	6 [1.0]	12 [1.3]	19 [1.2]
Hypertrophy, Focal	13 [1.3]	9 [1.0]	12 [1.3]	14 [1.3]
Necrosis		1 [4.0]		
Vacuolization Cytoplasmic	5 [1.4]	5 [1.0]	7 [1.0]	9 [1.2]
Adrenal Medulla	(50)	(50)	(50)	(47)
Hyperplasia, Focal			1 [1.0]	
Islets, Pancreatic	(50)	(49)	(49)	(47)
Hyperplasia	1 [1.0]			
Hypertrophy	1 [1.0]			
Pigmentation, Hemosiderin	1 [1.0]			
Parathyroid Gland	(49)	(47)	(49)	(46)
Pituitary Gland	(50)	(49)	(50)	(47)
Pigmentation, Hemosiderin			2 [1.5]	
Pars Distalis, Cyst	3			1
Pars Distalis, Cyst, Multiple		1	3	
Pars Distalis, Hyperplasia, Focal	14 [1.3]	9 [1.2]	17 [1.4]	9 [1.3]
Pars Distalis, Vacuolization Cytoplasmic				1 [1.0]
Pars Intermedia, Hyperplasia, Focal		1 [2.0]		1 [2.0]

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Species/Strain: RATS/Wistar Han

Lab: SRI

Wistar Han RATS FEMALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Pars Intermedia, Hypertrophy		1 [2.0]		
Pars Nervosa, Cyst, Multiple			1 [2.0]	
Pars Nervosa, Inflammation, Chronic	1 [2.0]		1 [2.0]	1 [2.0]
Thyroid Gland	(45)	(49)	(47)	(42)
Mineralization				1 [1.0]
C-cell, Hyperplasia	45 [1.8]	48 [1.8]	46 [1.8]	38 [2.0]
Follicle, Cyst	2		2	
Follicle, Cyst, Multiple	1			
Follicle, Hypertrophy	8 [1.1]	17 [1.3]	22 [1.4]	35 [1.9]
Follicular Cell, Hyperplasia	1 [1.0]	5 [1.0]	4 [1.8]	6 [1.3]
Follicular Cell, Hypertrophy			1 [1.0]	

GENERAL BODY SYSTEM

Tissue NOS	(3)	(2)	(4)	(2)
Abscess	1 [4.0]			
Fibrosis			1 [1.0]	1 [1.0]
Inflammation, Suppurative, Chronic Active		1 [4.0]		
Inflammation, Acute	1 [2.0]			
Inflammation, Chronic Active	1 [2.0]			

GENITAL SYSTEM

Clitoral Gland	(49)	(49)	(50)	(47)
Inflammation, Chronic	1 [1.0]	1 [1.0]	1 [1.0]	
Inflammation, Chronic Active			1 [1.0]	2 [3.0]
Duct, Cyst	2 [2.5]	4 [2.5]	3 [2.0]	3 [2.3]
Duct, Cyst, Multiple		1 [3.0]		
Ovary	(50)	(49)	(50)	(46)
Atrophy	1 [2.0]	3 [3.0]	1 [2.0]	2 [3.0]
Cyst	5 [2.6]	5 [2.2]	8 [2.0]	8 [2.5]
Cyst, Multiple			1 [4.0]	
Hyperplasia, Tubulostromal		4 [3.0]	3 [2.3]	1 [3.0]
Follicle, Cyst	4 [3.3]	2 [1.0]	3 [2.0]	5 [1.6]
Follicle, Cyst, Multiple	2 [2.5]	1 [2.0]		1 [2.0]

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Species/Strain: RATS/Wistar Han

Lab: SRI

Wistar Han RATS FEMALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Granulosa Cell, Hyperplasia, Multifocal				1 [2.0]
Uterus	(50)	(49)	(50)	(47)
Adenomyosis		1 [1.0]		
Angiectasis	1 [2.0]			
Cyst		1		
Cyst, Squamous				1 [2.0]
Decidual Reaction			1 [2.0]	1 [3.0]
Dilatation			1 [4.0]	1 [2.0]
Hemorrhage	1 [4.0]		1 [2.0]	
Hyperplasia, Atypical	3 [1.3]	1 [1.0]	2 [1.0]	
Inflammation, Chronic	1 [3.0]			
Inflammation, Chronic Active		1 [4.0]		
Metaplasia, Squamous			1 [1.0]	4 [1.3]
Cervix, Hyperkeratosis			1 [4.0]	
Cervix, Hyperplasia, Squamous				2 [2.5]
Endometrium, Hyperplasia, Cystic	15 [2.1]	9 [2.2]	17 [2.5]	14 [2.4]
Myometrium, Degeneration, Mucoid			1 [1.0]	
Serosa, Cyst			1 [1.0]	
Serosa, Inflammation, Acute	1 [1.0]			
Vagina	(1)	(1)	(2)	(2)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(46)
Fibrosis				1 [1.0]
Myeloid Cell, Hyperplasia	6 [2.0]	4 [2.3]	7 [2.3]	11 [2.2]
Lymph Node	(10)	(5)	(6)	(9)
Pigmentation, Hemosiderin	1 [2.0]			
Axillary, Ectasia	1 [2.0]			
Axillary, Hyperplasia, Lymphoid	1 [1.0]			
Axillary, Pigmentation	1 [1.0]			
Iliac, Hyperplasia, Lymphoid				1 [2.0]
Inguinal, Pigmentation	2 [1.5]		2 [1.0]	
Mediastinal, Ectasia		1 [3.0]	1 [1.0]	
Mediastinal, Hemorrhage	2 [1.5]	1 [3.0]		1 [1.0]

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Species/Strain: RATS/Wistar Han

Lab: SRI

Wistar Han RATS FEMALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Mediastinal, Hyperplasia, Lymphoid				1 [2.0]
Mediastinal, Hyperplasia, Plasma Cell			1 [4.0]	
Mediastinal, Inflammation, Granulomatous, Chronic Active		1 [3.0]		
Mediastinal, Pigmentation			1 [2.0]	
Mediastinal, Pigmentation, Hemosiderin	3 [1.7]	2 [2.0]	1 [1.0]	4 [1.5]
Pancreatic, Hemorrhage	1 [2.0]			
Pancreatic, Pigmentation, Hemosiderin	1 [1.0]			1 [2.0]
Popliteal, Hemorrhage				1 [1.0]
Popliteal, Hyperplasia, Lymphoid				1 [1.0]
Popliteal, Pigmentation		1 [2.0]		3 [1.0]
Lymph Node, Mandibular	(50)	(50)	(50)	(48)
Ectasia	4 [1.0]	2 [2.5]	4 [1.0]	1 [1.0]
Hemorrhage	2 [2.5]			
Hyperplasia, Lymphoid				2 [2.0]
Hyperplasia, Plasma Cell				1 [2.0]
Necrosis	1 [1.0]			
Pigmentation, Hemosiderin		1 [2.0]		
Lymph Node, Mesenteric	(50)	(49)	(50)	(46)
Ectasia	2 [1.5]	1 [3.0]	2 [1.5]	1 [1.0]
Hemorrhage	1 [1.0]	4 [2.0]	3 [2.0]	1 [3.0]
Hyperplasia, Lymphoid	1 [1.0]			
Infiltration Cellular, Histiocyte	1 [1.0]			
Inflammation, Acute	1 [1.0]			
Pigmentation, Hemosiderin	1 [2.0]	1 [1.0]	1 [1.0]	
Spleen	(50)	(49)	(50)	(45)
Accessory Spleen	1 [1.0]	1		
Angiectasis				1 [2.0]
Hematopoietic Cell Proliferation	27 [1.7]	24 [1.5]	19 [1.8]	17 [1.8]
Hemorrhage		1 [2.0]	1 [3.0]	
Pigmentation	31 [1.2]	31 [1.3]	32 [1.3]	27 [1.5]
Capsule, Fibrosis, Focal	1 [2.0]			
Lymphoid Follicle, Atrophy		2 [1.0]	3 [2.3]	1 [1.0]
Thymus	(50)	(49)	(48)	(46)
Atrophy	10 [1.9]	7 [2.7]	18 [2.1]	9 [2.2]
Cyst				1 [3.0]

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Time Report Requested: 10:27:35

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	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Hemorrhage	4 [2.0]	6 [2.0]	5 [1.6]	1 [4.0]

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(49)	(50)	(48)
Degeneration, Fatty	1 [2.0]			
Fibrosis			2 [2.0]	
Galactoceles	2 [2.5]		3 [2.3]	3 [1.7]
Hyperplasia	26 [1.3]	28 [1.4]	24 [1.5]	19 [1.7]
Inflammation, Granulomatous			1 [1.0]	
Inflammation, Chronic Active				1 [2.0]
Duct, Cyst	1 [1.0]		1 [1.0]	
Duct, Dilatation	16 [1.5]	19 [1.7]	13 [1.5]	6 [1.3]
Duct, Inflammation, Acute				1 [1.0]
Skin	(50)	(50)	(50)	(49)
Fibrosis	1 [1.0]			
Hyperkeratosis	1 [2.0]		2 [1.0]	
Inflammation, Acute			2 [1.0]	
Inflammation, Chronic		1 [2.0]	1 [2.0]	
Inflammation, Chronic Active		1 [2.0]		1 [2.0]
Ulcer	1 [2.0]		2 [1.5]	1 [2.0]
Epidermis, Hyperplasia		1 [3.0]	1 [1.0]	2 [1.5]

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(49)
Skeletal Muscle	(1)	(0)	(0)	(0)

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(49)
Compression	8 [3.0]	9 [2.6]	11 [2.4]	13 [2.3]
Cyst	1			
Hemorrhage, Multifocal			1 [2.0]	

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Species/Strain: RATS/Wistar Han

Lab: SRI

Wistar Han RATS FEMALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Peripheral Nerve	(0)	(0)	(1)	(0)

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(49)
Infiltration Cellular, Histiocyte	25 [1.0]	23 [1.0]	22 [1.0]	30 [1.1]
Inflammation, Acute				1 [1.0]
Inflammation, Chronic	1 [1.0]			1 [1.0]
Mineralization			1 [1.0]	1 [1.0]
Alveolar Epithelium, Hyperplasia	1 [1.0]	3 [1.0]	1 [1.0]	
Serosa, Inflammation, Acute	1 [2.0]			
Nose	(50)	(50)	(50)	(47)
Inflammation, Acute		1 [2.0]	1 [3.0]	1 [3.0]
Trachea	(47)	(50)	(50)	(47)
Inflammation, Chronic		1 [1.0]	1 [1.0]	

SPECIAL SENSES SYSTEM

Ear	(1)	(0)	(0)	(0)
Eye	(50)	(49)	(47)	(45)
Developmental Malformation		1		
Mineralization	1 [2.0]			
Retina, Atrophy	9 [1.7]	3 [1.3]	9 [1.9]	10 [1.8]
Harderian Gland	(49)	(50)	(50)	(49)

URINARY SYSTEM

Kidney	(50)	(50)	(49)	(47)
Calculus Gross Observation	1			
Casts Protein	2 [1.0]			2 [1.0]
Cyst	1	1	1	1
Cyst, Multiple	1			1
Hydronephrosis	1 [3.0]	1 [2.0]	1 [4.0]	6 [2.5]
Inflammation, Chronic	2 [3.0]		1 [1.0]	

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Species/Strain: RATS/Wistar Han

Lab: SRI

Wistar Han RATS FEMALE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
Inflammation, Chronic Active			1 [2.0]	
Nephropathy	13 [1.0]	8 [1.1]	17 [1.0]	15 [1.1]
Pigmentation		1 [1.0]	3 [1.0]	4 [1.0]
Pelvis, Inflammation, Acute	1 [1.0]			
Pelvis, Inflammation, Chronic Active	16 [1.2]	10 [1.1]	6 [1.0]	3 [1.0]
Pelvis, Mineralization	31 [1.2]	29 [1.1]	23 [1.0]	19 [1.1]
Renal Tubule, Dilatation			1 [2.0]	
Transitional Epithelium, Hyperplasia	3 [1.3]	4 [1.5]	1 [2.0]	2 [2.0]
Ureter	(1)	(0)	(0)	(1)
Inflammation, Chronic				1 [2.0]
Mineralization				1 [2.0]
Transitional Epithelium, Hyperplasia	1 [2.0]			
Urinary Bladder	(50)	(49)	(49)	(45)
Inflammation, Chronic				1 [1.0]
Inflammation, Chronic Active	1 [1.0]			
Transitional Epithelium, Hyperplasia	1 [2.0]			

*** END OF REPORT ***

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)