

Experiment Number: 96014 - 05

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

Date Report Requested: 03/05/2013

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 08:30:54

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 10/26/06 / 10/27/06

Species/Strain: RATS/F344/N Tac

Lab: BAT

F1_RD_Rev. 1

NTP Study Number: C96014B
Lock Date: 11/17/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25021 TSAC
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.1.1_001
PWG Approval Date: NONE

25020 NATD

25019 MSAC

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Species/Strain: RATS/F344/N Tac

Lab: BAT

Fischer 344-Taconic RATS MALE

0 mg/L

250 mg/L

500 mg/L

1000 mg/L

Disposition Summary

	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Animals Initially In Study	66	66	66	66
Early Deaths				
Moribund Sacrifice	26	23	20	27
Natural Death	5	6	5	4
Survivors				
Terminal Sacrifice	19	21	25	19
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(49)	(50)
Erosion			1 [1.0]	
Inflammation			2 [1.5]	
Intestine Large, Colon	(50)	(50)	(50)	(50)
Amyloid Deposition		1 [3.0]		
Inflammation	1 [2.0]	1 [3.0]		
Parasite Metazoan	6	8	10	8
Thrombosis		1 [1.0]		
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(49)	(50)
Intestine Small, Ileum	(50)	(50)	(49)	(50)
Intestine Small, Jejunum	(50)	(50)	(49)	(50)
Liver	(50)	(50)	(50)	(50)
Angiectasis		1 [1.0]	3 [1.3]	4 [1.0]
Basophilic Focus	13	23	17	20
Clear Cell Focus	19	20	21	16
Congestion				1 [4.0]
Degeneration, Cystic	12 [1.0]	12 [1.1]	11 [1.3]	14 [1.1]
Eosinophilic Focus	6	10	7	14
Fatty Change	8 [2.3]	7 [2.3]	4 [1.8]	1 [2.0]
Fatty Change, Focal			1 [1.0]	4 [1.0]
Fibrosis			1 [2.0]	
Hematopoietic Cell Proliferation	1 [1.0]			3 [1.0]

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

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Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Hemorrhage		1 [2.0]	1 [4.0]	
Hepatodiaphragmatic Nodule	9	4	3	2
Inflammation, Chronic Active	32 [1.0]	36 [1.0]	36 [1.1]	36 [1.1]
Mixed Cell Focus	3	2	6	1
Necrosis	2 [2.0]	1 [3.0]	4 [2.8]	5 [2.2]
Pigmentation, Hemosiderin	1 [1.0]		2 [1.5]	1 [1.0]
Regeneration			1 [3.0]	
Tension Lipidosis			1 [1.0]	2 [2.0]
Thrombosis				1 [2.0]
Bile Duct, Cyst	1 [1.0]			1 [3.0]
Bile Duct, Hyperplasia	49 [1.4]	48 [1.7]	49 [1.8]	48 [1.9]
Hepatocyte, Degeneration			1 [1.0]	3 [1.0]
Oval Cell, Hyperplasia			1 [1.0]	
Mesentery	(7)	(4)	(9)	(10)
Fat, Necrosis	7 [1.4]	3 [2.3]	3 [2.3]	3 [1.3]
Oral Mucosa	(50)	(50)	(50)	(50)
Pancreas	(50)	(50)	(49)	(50)
Atrophy	18 [1.5]	19 [1.4]	15 [1.5]	21 [1.7]
Cytoplasmic Alteration	1 [2.0]			
Acinus, Hyperplasia	4 [2.5]	1 [2.0]	3 [3.7]	4 [2.3]
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy			1 [2.0]	
Metaplasia, Serous	1 [2.0]			
Stomach, Forestomach	(50)	(50)	(50)	(50)
Erosion				1 [2.0]
Inflammation	13 [2.6]	8 [2.3]	4 [2.0]	
Perforation	1			
Ulcer	6 [3.0]	3 [2.3]	1 [3.0]	
Epithelium, Dysplasia	1 [1.0]			
Epithelium, Hyperplasia	12 [2.6]	8 [2.1]	4 [2.0]	1 [1.0]
Stomach, Glandular	(50)	(50)	(50)	(50)
Erosion	1 [2.0]		1 [2.0]	
Hyperplasia, Focal	1 [1.0]			
Inflammation	7 [1.3]	1 [2.0]	2 [1.5]	
Mineralization	1 [2.0]		1 [2.0]	1 [1.0]
Ulcer	2 [1.0]			

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Lab: BAT

Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Epithelium, Hyperplasia			1 [1.0]	
Tongue	(50)	(50)	(50)	(50)
Inflammation	1 [1.0]			
Epithelium, Hyperplasia			1 [2.0]	2 [2.5]
Tooth	(1)	(0)	(0)	(0)
Degeneration	1 [1.0]			

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)
Aneurysm			1 [3.0]	
Inflammation	5 [2.0]		3 [1.3]	
Aorta, Mineralization		1 [2.0]		
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	47 [2.0]	48 [2.0]	48 [1.9]	48 [1.8]
Mineralization		3 [1.7]		
Atrium, Inflammation		1 [1.0]		
Atrium, Thrombosis	5 [2.0]	6 [2.3]	7 [1.9]	5 [2.6]
Pericardium, Inflammation, Chronic Active	1 [3.0]			

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Atrophy	1 [2.0]			
Degeneration, Cystic	1 [2.0]	1 [1.0]	1 [1.0]	1 [1.0]
Hyperplasia	5 [1.4]	2 [1.5]	2 [1.0]	
Hypertrophy	1 [2.0]	3 [1.7]		
Mineralization			1 [1.0]	
Vacuolization Cytoplasmic	14 [1.7]	9 [1.3]	17 [1.1]	13 [1.2]
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	15 [1.9]	18 [1.9]	15 [1.9]	9 [2.2]
Islets, Pancreatic	(50)	(50)	(49)	(50)
Hyperplasia		2 [2.0]		1 [1.0]
Parathyroid Gland	(49)	(48)	(46)	(44)
Hyperplasia	6 [2.8]	1 [2.0]	1 [1.0]	1 [1.0]

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Pituitary Gland	(50)	(49)	(49)	(48)
Atrophy	2 [4.0]			
Pars Distalis, Atrophy	1 [3.0]			
Pars Distalis, Hyperplasia	12 [2.3]	14 [2.3]	18 [2.1]	21 [1.8]
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Hyperplasia	22 [1.9]	20 [1.4]	21 [1.8]	24 [1.8]
Follicle, Cyst				2 [1.0]
Follicular Cell, Hyperplasia	2 [1.5]			1 [4.0]

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)
Atrophy	8 [2.0]	7 [1.6]	5 [1.4]	4 [1.5]
Inflammation	1 [1.0]			1 [1.0]
Mesothelium, Hyperplasia			1 [2.0]	
Preputial Gland	(50)	(50)	(50)	(49)
Hyperplasia	1 [2.0]	2 [2.0]	2 [2.0]	
Inflammation	2 [3.0]			
Duct, Hyperplasia, Squamous			1 [2.0]	
Duct, Inflammation			1 [4.0]	
Prostate	(50)	(50)	(50)	(50)
Atrophy	1 [2.0]			
Cyst			1 [2.0]	
Inflammation	42 [1.9]	41 [1.9]	45 [1.6]	35 [1.8]
Epithelium, Hyperplasia	11 [1.4]	17 [1.6]	12 [1.7]	14 [1.8]
Seminal Vesicle	(50)	(50)	(50)	(50)
Atrophy	1 [3.0]			
Hyperplasia			1 [2.0]	1 [3.0]
Inflammation	3 [1.0]	3 [2.3]	2 [3.0]	1 [3.0]
Testes	(50)	(50)	(50)	(50)
Atrophy	15 [2.5]	16 [2.9]	16 [2.8]	17 [2.6]

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Inflammation	1 [2.0]			
Germinal Epithelium, Degeneration	8 [2.6]	10 [2.3]	8 [2.1]	9 [2.1]
Interstitial Cell, Hyperplasia	23 [2.5]	26 [2.5]	24 [2.4]	19 [2.1]

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Angiectasis	4 [1.3]	29 [1.7]	34 [2.1]	40 [2.1]
Hemorrhage		5 [1.8]	1 [2.0]	
Hyperplasia	17 [3.1]	19 [2.7]	20 [2.9]	30 [2.7]
Myelofibrosis	1 [2.0]			2 [1.0]
Necrosis		1 [2.0]		
Thrombosis		4 [1.8]		1 [1.0]
Lymph Node	(5)	(2)	(8)	(7)
Iliac, Ectasia				1 [2.0]
Iliac, Hyperplasia, Lymphoid				1 [3.0]
Iliac, Necrosis, Lymphoid				1 [2.0]
Inguinal, Ectasia				1 [3.0]
Lumbar, Ectasia			1 [4.0]	
Lumbar, Infiltration Cellular, Histiocyte			1 [2.0]	
Mediastinal, Hyperplasia			1 [2.0]	
Mediastinal, Hyperplasia, Lymphoid		1 [2.0]		
Mediastinal, Infiltration Cellular, Histiocyte				1 [2.0]
Mediastinal, Infiltration Cellular, Mast Cell		1 [2.0]		
Mediastinal, Infiltration Cellular, Plasma Cell				1 [2.0]
Pancreatic, Inflammation, Histiocytic				1 [3.0]
Renal, Hyperplasia, Lymphoid			1 [3.0]	
Renal, Infiltration Cellular, Histiocyte				1 [2.0]
Renal, Infiltration Cellular, Plasma Cell	2 [2.0]			
Lymph Node, Mandibular	(50)	(50)	(50)	(50)
Ectasia	4 [2.0]	1 [2.0]	2 [2.5]	
Lymph Node, Mesenteric	(50)	(50)	(49)	(50)
Atrophy	2 [2.5]			4 [2.8]
Ectasia			1 [3.0]	1 [3.0]
Hemorrhage				2 [2.0]

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Lab: BAT

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Necrosis				1 [2.0]
Spleen	(50)	(50)	(49)	(50)
Hematopoietic Cell Proliferation	32 [1.3]	31 [1.5]	31 [1.3]	32 [1.8]
Hemorrhage				1 [2.0]
Hyperplasia, Lymphoid		1 [2.0]		
Infarct	2 [2.0]	1 [2.0]		1 [4.0]
Pigmentation, Hemosiderin	35 [1.1]	36 [1.1]	32 [1.0]	28 [1.0]
Stromal Hyperplasia	1		1	2
Thrombosis				1 [4.0]
Capsule, Fibrosis				1 [2.0]
Lymphoid Follicle, Atrophy			3 [2.0]	
Red Pulp, Atrophy		1 [2.0]	1 [4.0]	
Thymus	(48)	(47)	(48)	(49)
Atrophy	47 [3.1]	46 [3.1]	46 [3.2]	49 [3.2]

INTEGUMENTARY SYSTEM

Mammary Gland	(49)	(50)	(49)	(49)
Hyperplasia	6 [1.2]	1 [1.0]	2 [1.0]	1 [1.0]
Inflammation, Chronic	1 [2.0]			
Inflammation, Chronic Active	1 [2.0]			
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	1		2	
Hyperplasia, Squamous		1 [3.0]		
Inflammation	3 [2.7]	5 [2.6]	5 [2.4]	5 [3.4]
Ulcer	2 [2.5]	3 [3.0]	1 [2.0]	3 [3.0]
Dermis, Fibrosis				1 [2.0]
Epidermis, Hyperkeratosis	2 [3.0]	1 [3.0]	2 [4.0]	2 [2.0]
Epidermis, Hyperplasia	3 [2.3]	5 [2.2]	5 [2.0]	2 [2.0]
Epidermis, Hyperplasia, Basal Cell				1 [4.0]
Epidermis, Hyperplasia, Squamous	1 [2.0]			

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
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Lab: BAT

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Fibrous Osteodystrophy	1 [2.0]			
Osteopetrosis	3 [1.7]	1 [2.0]		4 [2.0]
Cartilage, Sternum, Degeneration				1 [2.0]
Tibia, Fracture				1
Skeletal Muscle	(4)	(0)	(2)	(0)

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Gliosis		1 [1.0]		
Hemorrhage		2 [2.0]		
Infiltration Cellular, Lymphocyte		1 [1.0]		
Meninges, Hyperplasia				1 [2.0]
Peripheral Nerve	(0)	(2)	(0)	(0)
Degeneration		1 [2.0]		
Spinal Cord	(0)	(2)	(0)	(0)

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Fibrosis				1 [2.0]
Inflammation, Chronic Active	15 [1.3]	11 [1.0]	11 [1.0]	19 [1.5]
Metaplasia, Osseous			1 [1.0]	
Mineralization	1 [1.0]			
Thrombosis	1 [1.0]			
Alveolar Epithelium, Hyperplasia	5 [1.4]	7 [2.1]	12 [2.3]	10 [2.1]
Alveolar Epithelium, Hypertrophy				2 [1.5]
Alveolus, Infiltration Cellular, Histiocyte	20 [1.0]	22 [1.0]	25 [1.0]	22 [1.2]
Bronchiole, Hyperplasia	1 [2.0]			
Nose	(50)	(50)	(50)	(50)
Foreign Body	12	16	10	17 [1.0]
Inflammation	15 [1.5]	21 [1.5]	14 [1.3]	22 [1.5]
Glands, Olfactory Epithelium, Hyperplasia		1 [3.0]		
Glands, Respiratory Epithelium, Hyperplasia	1 [1.0]			
Olfactory Epithelium, Metaplasia				1 [1.0]

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Respiratory Epithelium, Hyperplasia	4 [1.5]			
Trachea	(50)	(50)	(50)	(50)

SPECIAL SENSES SYSTEM

Ear	(1)	(0)	(0)	(0)
Eye	(50)	(50)	(50)	(50)
Anterior Chamber, Inflammation			1 [4.0]	1 [3.0]
Cornea, Inflammation				1 [3.0]
Iris, Inflammation	1 [1.0]	1 [2.0]		
Lens, Cataract	2 [2.0]	5 [1.2]	1 [1.0]	6 [1.7]
Retina, Degeneration	4 [2.3]	2 [1.5]	3 [1.0]	5 [2.4]
Retina, Dysplasia				1 [2.0]
Retina, Gliosis		2 [1.5]		
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia, Squamous				1 [3.0]
Inflammation	1 [3.0]		1 [3.0]	
Metaplasia, Squamous				1 [2.0]
Zymbal's Gland	(1)	(2)	(0)	(2)

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Accumulation, Hyaline Droplet	3 [2.3]		1 [1.0]	
Mineralization	16 [1.0]	21 [1.1]	25 [1.0]	23 [1.0]
Nephropathy	48 [3.1]	49 [2.8]	49 [2.4]	49 [1.6]
Cortex, Cyst	1 [4.0]	1 [3.0]		
Cortex, Inflammation, Focal	1 [1.0]			
Pelvis, Dilatation		2 [2.0]		
Renal Tubule, Dilatation		2 [1.5]		
Renal Tubule, Hyperplasia, Atypical				1 [1.0]
Renal Tubule, Necrosis				1 [2.0]
Urinary Bladder	(50)	(50)	(50)	(50)
Inflammation	1 [2.0]	2 [2.5]		

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0 mg/L

250 mg/L

500 mg/L

1000 mg/L

*** END OF MALE ***

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Disposition Summary

Animals Initially In Study	66	66	66	66
Early Deaths				
Moribund Sacrifice	10	22	42	44
Natural Death	6	2	1	4
Survivors				
Terminal Sacrifice	34	26	7	2
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Inflammation		1 [2.0]		
Intestine Large, Colon	(50)	(50)	(50)	(50)
Parasite Metazoan	6	9	5	4
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Angiectasis	3 [1.0]		1 [1.0]	2 [3.0]
Basophilic Focus	42	46	46	46
Clear Cell Focus	14	10	5	8
Degeneration, Cystic	1 [1.0]	1 [1.0]		
Eosinophilic Focus	6	13	21	22
Fatty Change	10 [1.5]	7 [1.1]	5 [1.6]	5 [1.4]
Fatty Change, Focal	1 [2.0]	2 [1.0]		
Hematopoietic Cell Proliferation	3 [1.0]	7 [1.1]	14 [1.0]	9 [1.1]
Hepatodiaphragmatic Nodule	5	9	12	15
Inflammation, Chronic Active	36 [1.0]	33 [1.1]	40 [1.0]	35 [1.1]
Mixed Cell Focus	2	3	2	3
Necrosis	2 [1.0]	1 [2.0]	1 [1.0]	2 [2.5]
Necrosis, Multifocal	1 [1.0]			
Tension Lipidosis	1 [2.0]			

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Species/Strain: RATS/F344/N Tac

Lab: BAT

Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Bile Duct, Hyperplasia	28 [1.1]	27 [1.2]	28 [1.0]	22 [1.3]
Oval Cell, Hyperplasia	2 [1.0]			
Serosa, Fibrosis				1 [1.0]
Mesentery	(3)	(4)	(3)	(2)
Fat, Necrosis	3 [1.0]	4 [1.5]	3 [1.0]	2 [1.0]
Oral Mucosa	(0)	(0)	(0)	(1)
Pancreas	(50)	(50)	(50)	(50)
Atrophy	9 [1.2]	13 [1.0]	11 [1.2]	14 [1.1]
Acinus, Hyperplasia	6 [1.3]	1 [1.0]		
Salivary Glands	(50)	(50)	(50)	(50)
Degeneration		1 [2.0]		
Inflammation		1 [2.0]		
Stomach, Forestomach	(50)	(50)	(50)	(50)
Inflammation	2 [2.5]	1 [4.0]	1 [2.0]	
Ulcer	1 [4.0]	1 [2.0]	1 [3.0]	
Epithelium, Dysplasia				1 [1.0]
Epithelium, Hyperplasia	2 [3.0]	1 [2.0]	4 [1.5]	
Stomach, Glandular	(50)	(50)	(50)	(50)
Erosion				1 [2.0]
Mineralization	1 [1.0]			
Tongue	(50)	(50)	(50)	(50)
Foreign Body	1			
Inflammation	1 [1.0]			
Ulcer	1 [1.0]			
Epithelium, Hyperplasia	1 [1.0]			

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	45 [1.5]	42 [1.5]	39 [1.2]	35 [1.1]
Atrium, Thrombosis		1 [3.0]		
Epicardium, Inflammation				1 [2.0]

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

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 08:30:54

Route: DOSED WATER

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Species/Strain: RATS/F344/N Tac

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Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Degeneration, Cystic	4 [1.5]	2 [1.0]	2 [1.5]	6 [1.0]
Hematopoietic Cell Proliferation	1 [2.0]			
Hyperplasia		1 [2.0]		
Hypertrophy	5 [1.4]		1 [1.0]	5 [1.4]
Necrosis				2 [1.5]
Vacuolization Cytoplasmic	3 [1.0]	6 [1.8]	2 [1.0]	
Zona Fasciculata, Hyperplasia		4 [1.8]	1 [1.0]	1 [1.0]
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	2 [1.0]		5 [1.2]	1 [1.0]
Islets, Pancreatic	(50)	(50)	(50)	(50)
Parathyroid Gland	(47)	(46)	(49)	(49)
Pituitary Gland	(50)	(50)	(49)	(50)
Cyst		1 [3.0]		
Inflammation		1 [1.0]		
Pars Distalis, Angiectasis			1 [2.0]	1 [1.0]
Pars Distalis, Cyst			1	
Pars Distalis, Hyperplasia	15 [2.6]	18 [2.5]	22 [2.0]	17 [1.8]
Pars Distalis, Vacuolization Cytoplasmic			1 [1.0]	
Thyroid Gland	(50)	(50)	(50)	(50)
Atrophy			1 [4.0]	
Cyst		1 [4.0]		
C-cell, Hyperplasia	33 [1.6]	31 [1.6]	26 [1.9]	26 [1.7]
Follicular Cell, Hyperplasia	1 [1.0]	2 [2.0]		1 [2.0]

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(49)	(49)	(48)
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Cyst	1 [4.0]	1 [2.0]		
Hyperplasia	1 [2.0]	5 [2.0]	3 [2.7]	
Inflammation	2 [4.0]			
Ovary	(50)	(50)	(50)	(50)
Atrophy	9 [2.9]	9 [1.9]	6 [2.8]	3 [2.0]
Cyst	10 [1.5]	12 [1.3]	10 [1.3]	6 [1.3]
Infiltration Cellular, Histiocyte	1 [3.0]			
Uterus	(50)	(50)	(50)	(50)
Atrophy		1 [4.0]		
Cervix, Hypertrophy		1 [2.0]	1 [2.0]	
Cervix, Inflammation	2 [3.0]	3 [2.3]		1 [4.0]
Cervix, Metaplasia, Squamous	2 [2.0]	1 [1.0]		1 [2.0]
Cervix, Epithelium, Hyperplasia	1 [2.0]			
Endometrium, Hyperplasia, Adenomatous			1 [2.0]	
Endometrium, Hyperplasia, Cystic	10 [2.0]	9 [1.4]	12 [1.6]	9 [1.4]
Vagina	(1)	(0)	(0)	(0)
Epithelium, Hyperplasia	1 [2.0]			

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Angiectasis	1 [1.0]	19 [1.5]	32 [1.7]	39 [1.7]
Atrophy				1 [2.0]
Hemorrhage	1 [3.0]	1 [1.0]		
Hyperplasia	23 [2.5]	35 [2.7]	40 [2.7]	43 [2.7]
Infiltration Cellular, Histiocyte		1 [2.0]	1 [1.0]	1 [1.0]
Myelofibrosis				1 [1.0]
Necrosis	1 [3.0]			1 [2.0]
Lymph Node	(4)	(4)	(2)	(2)
Inguinal, Infiltration Cellular, Plasma Cell	1 [2.0]			
Lumbar, Ectasia		1 [3.0]		
Mediastinal, Hyperplasia, Lymphoid		1 [2.0]		
Mediastinal, Infiltration Cellular, Histiocyte	1 [2.0]			
Mediastinal, Infiltration Cellular, Plasma Cell				1 [2.0]
Pancreatic, Infiltration Cellular, Histiocyte	1 [2.0]			

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Lymph Node, Mandibular	(50)	(50)	(50)	(50)
Atrophy			1 [3.0]	
Infiltration Cellular, Plasma Cell	1 [2.0]		1 [3.0]	
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Atrophy	4 [2.5]		2 [1.5]	
Ectasia			1 [2.0]	
Infiltration Cellular, Histiocyte				1 [2.0]
Spleen	(50)	(50)	(50)	(50)
Hematopoietic Cell Proliferation	6 [1.8]	13 [2.4]	29 [2.1]	31 [2.1]
Hyperplasia, Lymphoid		1 [3.0]		
Pigmentation, Hemosiderin	39 [1.2]	43 [1.2]	41 [1.1]	39 [1.1]
Thrombosis				2 [2.0]
Capsule, Mineralization	1 [2.0]			
Lymphoid Follicle, Atrophy	5 [2.2]	1 [2.0]	1 [2.0]	3 [1.7]
Thymus	(48)	(49)	(47)	(48)
Atrophy	45 [3.2]	48 [3.0]	44 [3.0]	45 [3.0]

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Galactocele		1 [4.0]		
Hyperplasia		4 [1.3]	2 [1.5]	10 [1.2]
Inflammation	1 [4.0]			
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	1	1		
Inflammation	3 [2.0]			2 [2.0]
Ulcer	2 [2.0]			
Epidermis, Hyperkeratosis				1 [3.0]
Epidermis, Hyperplasia, Squamous	2 [2.0]			1 [1.0]
Sebaceous Gland, Hyperplasia			1 [2.0]	

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Fibrous Osteodystrophy	1 [1.0]	1 [2.0]		

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Lab: BAT

Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Hyperplasia			1 [2.0]	
Osteopetrosis	2 [2.5]	2 [2.0]	8 [2.3]	5 [2.2]
Tibia, Fracture		1		
Vertebra, Fracture				1
Skeletal Muscle	(0)	(1)	(0)	(0)

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Hemorrhage		2 [1.5]		
Necrosis		1 [2.0]		
Spinal Cord	(0)	(0)	(1)	(0)

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Inflammation, Chronic Active	20 [1.1]	26 [1.1]	26 [1.0]	28 [1.1]
Alveolar Epithelium, Hyperplasia	11 [1.3]	4 [1.0]	8 [1.1]	8 [1.6]
Alveolar Epithelium, Hypertrophy	1 [1.0]			
Alveolus, Hyperplasia			1 [1.0]	
Alveolus, Infiltration Cellular, Histiocyte	38 [1.0]	46 [1.0]	43 [1.0]	43 [1.0]
Bronchiole, Hyperplasia		1 [1.0]		1 [1.0]
Mediastinum, Inflammation	1 [2.0]			
Nose	(50)	(50)	(50)	(50)
Foreign Body	2	1	2	1
Inflammation	5 [1.6]	5 [1.2]	9 [1.2]	5 [2.0]
Respiratory Epithelium, Hyperplasia			1 [2.0]	
Trachea	(50)	(50)	(50)	(50)

SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(50)
Fibrosis			1 [2.0]	
Anterior Chamber, Inflammation			1 [3.0]	

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Lab: BAT

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Ciliary Body, Fibrosis	1 [2.0]			
Cornea, Inflammation		1 [1.0]		1 [2.0]
Iris, Inflammation	1 [2.0]			
Lens, Cataract	5 [2.8]	1 [2.0]	6 [2.3]	3 [2.3]
Posterior Chamber, Inflammation	1 [2.0]			
Retina, Degeneration	6 [3.2]	2 [2.0]	5 [2.6]	3 [4.0]
Retina, Gliosis	1 [1.0]	1 [2.0]	1 [1.0]	
Harderian Gland	(50)	(50)	(50)	(50)
Inflammation			1 [4.0]	1 [4.0]
Lacrimal Gland	(0)	(2)	(0)	(0)
Zymbal's Gland	(0)	(0)	(0)	(2)

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Infarct	1 [2.0]	1 [1.0]		1 [1.0]
Infiltration Cellular, Lymphoid		1 [2.0]		
Inflammation	1 [3.0]			
Mineralization	28 [1.0]	21 [1.0]	20 [1.0]	27 [1.0]
Nephropathy	43 [1.6]	40 [1.3]	44 [1.1]	46 [1.4]
Cortex, Cyst	1 [1.0]		1 [1.0]	
Papilla, Necrosis	1 [1.0]			1 [3.0]
Pelvis, Calculus Micro Observation Only		3	4	
Pelvis, Inflammation	1 [1.0]		1 [2.0]	
Renal Tubule, Dilatation				1 [2.0]
Renal Tubule, Hyperplasia, Atypical		1 [1.0]	1 [2.0]	
Renal Tubule, Necrosis				1 [1.0]
Urinary Bladder	(50)	(50)	(50)	(50)
Transitional Epithelium, Hyperplasia		1 [2.0]		

*** END OF REPORT ***

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