

Experiment Number: 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
Time Report Requested: 08:02:51
First Dose M/F: 10/26/06 / 10/27/06
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	25020 NATD	25019 MSAC
Removal Date Range:	ALL		
Treatment Groups:	Include ALL		
Study Gender:	Both		
TDMSE Version:	3.0.1.1_001		
PWG Approval Date:	NONE		

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	DAY ON TEST																				
FISCHER 344-TACONIC RATS MALE 0 mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	6	5	6	6	6	7	7	5	5	6	7	7	6	7	5	4	7	3	7	7
	2	7	8	8	1	8	2	2	6	7	5	1	2	0	2	3	7	2	8	2	2
	6	4	8	0	7	3	6	6	8	9	7	9	6	8	6	7	7	3	7	7	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	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
																					males (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Inflammation	+	+	+	+	+	+	+	+	+	2											
Parasite Metazoan							X					X									
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus							X					X	X			X			X		
Clear Cell Focus	X						X	X		X		X		X		X			X	X	
Degeneration, Cystic							1							1				1	1	1	1
Eosinophilic Focus							X						X			X					
Fatty Change			2						4							2			2		
Hematopoietic Cell Proliferation																					
Hepatodiaphragmatic Nodule				X			X														
Inflammation, Chronic Active	1		1			1	1	1	1	1		1		1	1	1	1		1	1	1
Mixed Cell Focus	X											X									
Necrosis														2							
Pigmentation, Hemosiderin																1					

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FISCHER 344-TACONIC RATS MALE 0 mg/L	DAY ON TEST																				males (cont...)				
	0726	0727	0728	0728	0731	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732		0732			
ANIMAL ID	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
Bile Duct, Cyst																									
Bile Duct, Hyperplasia	2	1	1	1	2	2	2	2	1	1	1	1	1	2	1	2	1	2		2	2	2	1	1	1
Mesentery	+																				+	+			+
Fat, Necrosis	1																				1	1			2
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	4	1	1	2	1				1	2					1		1					4	1		1
Cytoplasmic Alteration Acinus, Hyperplasia					4										1										2
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Metaplasia, Serous																									
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation				1	4					4					2		2				4				2
Perforation																						X			
Ulcer				4					4								3								
Epithelium, Dysplasia																									
Epithelium, Hyperplasia				4											2		3				4				
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Erosion																									
Hyperplasia, Focal																									
Inflammation				2	1										2										1
Mineralization																									
Ulcer							1																		1
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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	0	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/L	7	6	5	6	6	6	7	7	5	5	6	7	7	6	7	5	4	7	3	7	7	6	7	7		
	2	7	8	8	1	8	2	2	6	7	5	1	2	0	2	3	7	2	8	2	2	2	3	2	2	
	6	4	8	0	7	3	6	6	8	9	7	9	6	8	6	7	7	7	3	7	7	8	7	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	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	2	2	2	2	2	3		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	5	6	7	8	9	0		

Inflammation

Tooth
 Degeneration

CARDIOVASCULAR SYSTEM

Blood Vessel Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	3							2							2								2	1	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	2		1	3	1	1	3	3	1		2	2	2	2	2	2	2	1	2	1	3	2	2	1	
Atrium, Thrombosis								2				3		3											
Pericardium, Inflammation, Chronic Active							3																		

ENDOCRINE SYSTEM

Adrenal Cortex Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Degeneration, Cystic																										
Hyperplasia											1		1								1					
Hypertrophy			2																							
Vacuolization Cytoplasmic				1				2									1			3				2		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperplasia	3	1					2					1			4			2			2	4	1			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperplasia																		2						2	3	

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	0 7 2 6	0 6 7 4	0 5 8 8	0 6 8 0	0 6 1 7	0 6 8 3	0 7 2 6	0 7 2 6	0 5 6 8	0 5 7 9	0 6 1 7	0 7 2 6	0 6 0 8	0 7 2 6	0 5 3 7	0 4 7 7	0 7 8 3	0 3 2 7	0 7 2 7	0 7 2 7	0 6 3 8	0 7 2 7	0 6 3 8	0 7 2 7		
0 mg/L	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	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 0 0	0 0 0 0 1	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	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 0 0	0 0 0 0 1

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy										4																
Pars Distalis, Atrophy																										
Pars Distalis, Hyperplasia									4			1	1	3		1								1		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia																										
Follicular Cell, Hyperplasia				1	4	1				1		2				3						4	1		2	2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy			2								2	3		3			1		2						
Inflammation			1																						
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									2
Inflammation																3		3							
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy												2													
Inflammation																									
Epithelium, Hyperplasia	2	1	2	3	2	2	2		1	1	1	1		1	2	1	2	1		2	2	1	2		3
							1								1						1				
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									

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	07 26 64	06 78 48	05 88 80	06 61 73	06 88 63	07 72 66	07 72 66	05 56 89	05 57 89	06 67 97	06 71 96	07 76 86	07 77 96	06 60 86	07 72 96	05 53 67	04 47 77	03 37 67	07 72 77	06 63 87		07 72 77	06 63 87	07 72 77	07 72 77								
0 mg/L	ANIMAL ID																																
	00 00 00 01	00 00 00 02	00 00 00 03	00 00 00 04	00 00 00 05	00 00 00 06	00 00 00 07	00 00 00 08	00 00 00 09	00 00 00 00	00 00 00 01	00 00 00 01	00 00 00 02	00 00 00 03	00 00 00 04	00 00 00 05	00 00 00 06	00 00 00 07	00 00 00 08	00 00 00 09	00 00 00 00	00 00 00 01	00 00 00 02	00 00 00 03	00 00 00 04	00 00 00 05	00 00 00 06	00 00 00 07	00 00 00 08	00 00 00 09	00 00 00 00	00 00 00 01	
Inflammation	1																																
Testes	+ +																																
Atrophy	4 4 2 4 1 3 4 1 3 2																																
Inflammation	2																																
Germinal Epithelium, Degeneration	2 2 3																																
Interstitial Cell, Hyperplasia	3 2 3 1 4 4 3 2 3 1 2																																
HEMATOPOIETIC SYSTEM																																	
Bone Marrow	+ +																																
Angiectasis																					1 1 1												
Hyperplasia	3 2 4 2 3																																
Myelofibrosis	2																																
Lymph Node																					+ + +												
Renal, Infiltration Cellular, Plasma Cell	2																				2												
Lymph Node, Mandibular	+ +																																
Ectasia	3																																
Lymph Node, Mesenteric	+ +																																
Atrophy	2 3																																
Spleen	+ +																																
Hematopoietic Cell Proliferation	1 1 2 2 2 1 1 1 1 2 1 1 1 1																				1 1 1												
Infarct																					2 2												
Pigmentation, Hemosiderin	1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 2 1 2 1 2 1 1																																
Stromal Hyperplasia																					X												
Thymus	+ + + + + + + + + + + M + + + + + + + + + + + +																																

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	0	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/L	7	6	5	6	6	6	7	7	5	5	6	7	7	6	7	5	4	7	3	7	7	6	7	7		
	2	7	8	8	1	8	2	2	6	7	5	1	2	0	2	3	7	2	8	2	2	2	3	2	2	
	6	4	8	0	7	3	6	6	8	9	7	9	6	8	6	7	7	3	7	7	7	8	7	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	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	2	2	2	2	3		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	5	6	7	8	9	0		
Atrophy	4	4	3	4	4	4	3	3	4	3	4		3	3	3	2	3	3	3	3	3	3	4	2	3	

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	1																			1	2	1		
Inflammation, Chronic							2																	
Inflammation, Chronic Active	2																							
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																								
Inflammation																	3							
Ulcer																2								
Epidermis, Hyperkeratosis																								
Epidermis, Hyperplasia																								
Epidermis, Hyperplasia, Squamous																								

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrous Osteodystrophy																								
Osteopetrosis		2			1										2									
Skeletal Muscle																						+	+	

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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RESPIRATORY SYSTEM

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	07	06	05	06	06	06	07	07	05	05	06	07	07	06	07	05	04	07	03	07	07	06	07	07	
0 mg/L	26	74	88	80	17	83	26	26	68	79	07	09	06	08	06	07	07	03	07	02	02	03	02	02	
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	
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	01	02	03	04	05	06	07	08	09	00	01	01	01	01	01	01	01	01	02	02	02	02	03	03	

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Accumulation, Hyaline Droplet						1						4													
Mineralization											1	1	1				1								
Nephropathy	4	2	3	4	1	4	3	4	4		3	2	4	2	4	3	3	4		4	3	3	4	2	4
Cortex, Cyst					4																				
Cortex, Inflammation, Focal																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																									
															2										

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

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																								* TOTALS
	0644	0727	0664	0588	0688	0722	0594	0554	0664	0727	0667	0777	0667	0777	0667	0568	0667	0667	0777	0578	0777	0662	0667	0667	
0 mg/L	00032	00033	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	00051	00052	00053	00054	00055	00056	00057	50

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan			X		X																	X		X	1 6
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basophilic Focus	X					X				X										X	X	X	X	X	13
Clear Cell Focus		X			X	X			X	X			X						X		X	X		X	19
Degeneration, Cystic			1									1	1						1		1				12
Eosinophilic Focus									X				X											X	6
Fatty Change				2			1	3								2									8
Hematopoietic Cell Proliferation									1																1
Hepatodiaphragmatic Nodule		X										X				X			X		X	X		X	9
Inflammation, Chronic Active	1	1			1	2	1		1	1	1		1	1	1			1	1	1	1	1	1	1	32
Mixed Cell Focus																					X				3
Necrosis												2													2
Pigmentation, Hemosiderin																									1

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

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FISCHER 344-TACONIC RATS MALE 0 mg/L	DAY ON TEST																								* TOTALS	
	0644	0727	0664	0588	0688	0722	0594	0554	0664	0727	0666	0777	0777	0666	0555	0666	0666	0777	0555	0777	0777	0666	0666			
ANIMAL ID	00032	00033	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	00051	00052	00053	00054	00055	00056			
Bile Duct, Cyst																								1	1	1.0
Bile Duct, Hyperplasia	1	2	2	1	2	1	1	1	1	2	2	1	2	2	1	1	2	2	1	1	2	1	2	1	49	1.4
Mesentery																									7	
Fat, Necrosis																									7	1.4
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																									18	1.5
Cytoplasmic Alteration	2																							1	2.0	
Acinus, Hyperplasia																									4	2.5
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Metaplasia, Serous																									1	2.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation	3																								13	2.6
Perforation																									1	
Ulcer	2																								6	3.0
Epithelium, Dysplasia																									1	1.0
Epithelium, Hyperplasia	3																								12	2.6
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Erosion																									1	2.0
Hyperplasia, Focal																									1	1.0
Inflammation																									7	1.3
Mineralization																									1	2.0
Ulcer																									2	1.0
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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	0 6 4 4	0 7 2 7	0 6 6 4	0 5 8 9	0 6 8 7	0 7 2 6	0 5 9 3	0 5 4 4	0 6 6 4	0 7 2 7	0 6 0 7	0 6 7 8	0 7 2 7	0 6 1 0	0 5 6 1	0 6 8 0	0 6 7 1	0 6 6 4	0 7 2 7	0 5 8 0		0 7 2 7	0 6 2 2	0 6 0 6	0 6 6 6	0 6 6 6	0 6 6 6	0 6 6 6		
0 mg/L	0 0 0 3 2	0 0 0 3 3	0 0 0 3 6	0 0 0 3 7	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 5	0 0 0 4 6	0 0 0 4 7	0 0 0 5 2	0 0 0 5 3	0 0 0 6 4	0 0 0 6 0	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 6	0 0 0 6 6	0 0 0 6 6	0 0 0 6 6		
Inflammation	1																								1	1.0				
Tooth Degeneration																									1	1.0				
CARDIOVASCULAR SYSTEM																														
Blood Vessel Inflammation	+																								50	5	2.0			
Heart	+																								50					
Cardiomyopathy	1	2	2	1	2	3	2	1	3	3	2	3	2	2	1	2	3	1	2	3	2	2	2	2	2	2	2	2	47	2.0
Atrium, Thrombosis	1																								5	2.0				
Pericardium, Inflammation, Chronic Active																									1	3.0				
ENDOCRINE SYSTEM																														
Adrenal Cortex	+																								50					
Atrophy																									2	1	2.0			
Degeneration, Cystic	2																								1	2.0				
Hyperplasia																									3	1	1.4			
Hypertrophy																									1	2.0				
Vacuolization Cytoplasmic	2	4	1			1		1		2		1						1	2									14	1.7	
Adrenal Medulla	+																								50					
Hyperplasia	1																								15	1.9				
Islets, Pancreatic	+																								50					
Parathyroid Gland	+																								49					
Hyperplasia	3												3															6	2.8	

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0				
0 mg/L	6	7	6	5	6	7	5	5	6	7	6	6	7	7	6	5	6	6	7	5	7	7	6	6		
ANIMAL ID	4	2	6	8	8	2	9	4	6	2	0	7	2	2	1	6	8	7	6	2	8	2	2	0	6	
	4	7	4	9	7	6	3	4	4	7	7	8	7	7	0	1	0	1	4	7	0	7	7	2	4	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	6	6	6	6	6	6	6	
	2	3	6	7	8	9	0	1	2	3	4	5	6	7	8	2	3	4	0	1	2	3	4	5	6	

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																							4		2 4.0
Pars Distalis, Atrophy												3													1 3.0
Pars Distalis, Hyperplasia	1										3	3	4					2		3					12 2.3
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C-cell, Hyperplasia		2		1	1					4				2	1			2		1		1	1	3	22 1.9
Follicular Cell, Hyperplasia				2																1					2 1.5

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy	2																					1			8 2.0
Inflammation																									1 1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																									1 2.0
Inflammation																									2 3.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																									1 2.0
Inflammation		1	1	3	3	1		3	2	2	2	3	2	2	4	2	1	2	2		1	2	2	2	42 1.9
Epithelium, Hyperplasia						3				1	2	1	1	1			2		1						11 1.4
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																									1 3.0

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	0 6 4 4	0 7 2 7	0 6 6 4	0 5 8 9	0 6 8 7	0 7 2 6	0 5 9 3	0 5 4 4	0 6 6 4	0 7 2 7	0 6 2 7	0 6 0 7	0 7 2 7	0 6 1 0	0 5 6 1	0 6 8 0	0 6 7 1	0 6 6 4	0 7 2 7	0 5 8 0	0 7 2 7	0 6 2 4	0 6 6 5														
0 mg/L	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													
	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	6													
	2	3	6	7	8	9	0	1	2	3	4	5	6	7	8	2	3	4	0	1	2	3	4	5	6												
Inflammation													1	1											3	1.0											
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50													
Atrophy				2	1									2	2				4				3						15	2.5							
Inflammation																		4						3						1	2.0						
Germinal Epithelium, Degeneration				2	2									3				3				4						8	2.6								
Interstitial Cell, Hyperplasia				2	2				3	2	3				2	2	3	2	2				3				3						23	2.5			
HEMATOPOIETIC SYSTEM																																					
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50													
Angiectasis																			2											4	1.3						
Hyperplasia				4									4	3	2				4	4	4				2	3			2	4	2	17	3.1				
Myelofibrosis																															1	2.0					
Lymph Node																															5						
Renal, Infiltration Cellular, Plasma Cell																															2	2.0					
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50													
Ectasia																												2	2	1						4	2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50													
Atrophy																																		2	2.5		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50													
Hematopoietic Cell Proliferation						2	1				3	1	1	1	1	1	2	1	2				2	1	1	1	1			1	32	1.3					
Infarct																															2	2.0					
Pigmentation, Hemosiderin	1	1				1	1									1	1	1	1	1				1	1	1	1	1			1	35	1.1				
Stromal Hyperplasia																															1						
Thymus	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48													

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0 mg/L	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	00032	00033	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	00051	00052	00053	00054	00055	00056				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	2	3	6	7	8	9	0	1	2	3	4	5	6	7	8	2	3	4	0	1	2	3	4				
Atrophy	3	3			3	3	3	4	3	3	2	3	3	3	3	3	4	4	3	3	3	2	2	3	3	47	3.1

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49			
Hyperplasia								1																			6	1.2
Inflammation, Chronic																											1	2.0
Inflammation, Chronic Active																											1	2.0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Cyst Epithelial Inclusion	X																									1		
Inflammation				3											2											3	2.7	
Ulcer											3															2	2.5	
Epidermis, Hyperkeratosis	3		3																							2	3.0	
Epidermis, Hyperplasia	3										2		2													3	2.3	
Epidermis, Hyperplasia, Squamous				2																						1	2.0	

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Fibrous Osteodystrophy																										2	1	2.0
Osteopetrosis																											3	1.7
Skeletal Muscle																												4

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
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RESPIRATORY SYSTEM

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0 mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	5	5	5	6	6	6	6	6	6	
	2	3	6	7	8	9	0	1	2	3	4	5	6	7	8	2	3	4	0	1	2	3	4	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active									1		1	1		1						1	4			15 1.3
Mineralization																								1 1.0
Thrombosis								1																1 1.0
Alveolar Epithelium, Hyperplasia													1		1				1					5 1.4
Alveolus, Infiltration Cellular, Histiocyte	1	1			1	1		1		1		1	1	1			1		1		1			20 1.0
Bronchiole, Hyperplasia																								1 2.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Foreign Body		X			X			X	X			X	X				X				X			12
Inflammation		2			1			2	1			2	1	2								1	2	15 1.5
Glands, Respiratory Epithelium, Hyperplasia																			1					1 1.0
Respiratory Epithelium, Hyperplasia																								4 1.5
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
SPECIAL SENSES SYSTEM																								
Ear																					+		1	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Iris, Inflammation																								1 1.0
Lens, Cataract																					3			2 2.0
Retina, Degeneration																		1			4			4 2.3
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																								1 3.0
Zymbal's Gland																					+		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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																									* TOTALS
	0 6 4 4	0 7 2 7	0 6 6 4	0 5 8 9	0 6 8 7	0 7 2 6	0 5 9 3	0 5 4 4	0 6 6 4	0 7 2 7	0 6 0 7	0 6 7 8	0 7 2 7	0 6 1 0	0 5 6 1	0 6 8 7	0 6 7 6	0 6 2 4	0 7 8 7	0 5 2 0	0 7 2 7	0 6 2 5	0 6 0 4			
0 mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	5	5	5	6	6	6	6	6	6	6	6	
	2	3	6	7	8	9	0	1	2	3	4	5	6	7	8	2	3	4	0	1	2	3	4	5	6	

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Accumulation, Hyaline Droplet														2											3 2.3	
Mineralization		1			1		1	1		1			1	1	1			1	1		1				16 1.0	
Nephropathy	4	3	3	3	4	4	2	2	3	4	3	4	3	2	3	2	3	3	4	3	2	3	3	2	3	48 3.1
Cortex, Cyst																										1 4.0
Cortex, Inflammation, Focal							1																			1 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																										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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																								males (cont...)
	0595	0638	0665	0727	0777	0777	0777	0777	0833	0833	0833	0833	0833	0833	0833	0833	0833	0833	0833	0833	0833	0833	0833	0833	
250 mg/L	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
	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
	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
	0013	0014	0015	0016	0013	0014	0015	0016	0017	0018	0019	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0010	0011	0012	0013

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Amyloid Deposition Inflammation Parasite Metazoan Thrombosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	X	X									X												X	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis				1																				
Basophilic Focus	X						X		X	X				X	X		X	X		X				X
Clear Cell Focus				X			X		X	X				X			X			X	X			X
Degeneration, Cystic				1			1						1		1					1				
Eosinophilic Focus	X			X											X					X				
Fatty Change												3							2				3	
Hemorrhage																								
Hepatodiaphragmatic Nodule			X								X													X
Inflammation, Chronic Active	1	1		1			1	1	1	1			1	1	1	1	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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE 250 mg/L	DAY ON TEST																						males (cont...)
	0595	0638	0635	0727	0777	0777	0777	0533	0719	0668	0767	0659	0779	0664	0665	0776	0766	0676	0776	0776	0530	0717	
ANIMAL ID	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	
Mixed Cell Focus	X																						
Necrosis																							
Bile Duct, Hyperplasia	1	1	2	3	2	2	1	2	1	2	1	1	2	2	2	1	2	2	2	2	1	1	2
Mesentery																							
Fat, Necrosis	4	1																					
Oral Mucosa	+																						
Pancreas	+																						
Atrophy	+																						
Acinus, Hyperplasia	1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1																						
Salivary Glands	+																						
Stomach, Forestomach	+																						
Inflammation	+																						
Ulcer	1 1 4 4 2 1 3 2																						
Epithelium, Hyperplasia	2 1 3 2																						
Stomach, Glandular	+																						
Inflammation	2																						
Tongue	+																						
CARDIOVASCULAR SYSTEM																							
Blood Vessel	+																						
Aorta, Mineralization	2																						
Heart	+																						

* .. 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: 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
Time Report Requested: 08:02:51
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

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	ANIMAL ID	males (cont...)		
	5	6	6	7	7	7	7	5	7	6	7	6	5	7	6	6	7	7	6	7	7	5	1			7	
FISCHER 344-TACONIC RATS MALE	9	3	3	2	2	2	2	3	1	8	2	7	0	2	4	8	2	2	6	1	2	2	3	1	2	0	0
250 mg/L	5	8	5	7	7	7	7	3	9	8	7	4	9	7	4	5	6	6	7	6	6	6	0	7	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	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	0	0
	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	0	0
	3	4	5	6	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	0	0

GENITAL SYSTEM

Epididymis Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	1	1	2															
Preputial Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	3																	
Prostate Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	2	2	2	1	2	1	2	3	1	2	1	3	2	3	2	2	2	2
Epididymis Epithelium, Hyperplasia																										3	2	1	1	4	1	2	2	2	1	2	2	1	1				
Seminal Vesicle Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3																		
Testes Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	4	4	2	4	4	4												
Testes Germinal Epithelium, Degeneration																																				2							
Testes Interstitial Cell, Hyperplasia	3	3	3	3	2				4	4	2	2						3	2																								

HEMATOPOIETIC SYSTEM

Bone Marrow Angiectasis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	2	1	1	2	1	1	2	1	2	1	3	2	1	2
Bone Marrow Hemorrhage																																				1	2	
Bone Marrow Hyperplasia	4		3		4	4	1	3						1	3			1			3																	
Bone Marrow Necrosis														2																								
Bone Marrow Thrombosis																																						
Lymph Node Mediastinal, Hyperplasia, Lymphoid																																						

* .. 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE 250 mg/L	DAY ON TEST																				ANIMAL ID	males (cont...)					
	0595	0638	0665	0727	0777	0777	0777	0573	0769	0678	0767	0654	0770	0648	0668	0722	0766	0676	0776	0777			0575	0717	0777		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001			
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0001			
	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	0001			
	3	4	5	6	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	0003			
Mediastinal, Infiltration Cellular, Mast Cell																								2			
Lymph Node, Mandibular Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Spleen Hematopoietic Cell Proliferation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Hyperplasia, Lymphoid	3	2					1	1	1	1		2		2	2		1	2		1		2	2				
Infarct				2																		2					
Pigmentation, Hemosiderin		1			1		1	1	1	1	1	1	1	1	1	1	2	1		2	1	1	1				
Red Pulp, Atrophy																			2								
Thymus Atrophy	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+				
		3	3	3	3	3	3	3	4	3	3	3	3	3	4	4	4	4		4	3	3	3	2		3	

INTEGUMENTARY SYSTEM

Mammary Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin Hyperplasia, Squamous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation													3											
Ulcer	4					2										3					3			
Epidermis, Hyperkeratosis										3														
Epidermis, Hyperplasia															2						2		2	

MUSCULOSKELETAL 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
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Date Report Requested: 03/05/2013
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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

DAY ON TEST	FISCHER 344-TACONIC RATS MALE																								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	0	0	0		
5	6	6	7	7	7	7	5	7	6	7	6	5	7	6	6	7	7	6	7	7	5	1	7	0	7	
9	3	3	2	2	2	2	3	1	8	2	7	0	2	4	8	2	2	6	1	2	2	3	1	2	6	
5	8	5	7	7	7	7	3	9	8	7	4	9	7	4	5	6	6	7	6	6	0	7	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	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	
0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	
3	4	5	6	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	3	

Bone
Osteopetrosis +

NERVOUS SYSTEM

Brain +
 Gliosis 1
 Hemorrhage
 Infiltration Cellular, Lymphocyte 1
 Peripheral Nerve Degeneration +
 2
 Spinal Cord +

RESPIRATORY SYSTEM

Lung +
 Inflammation, Chronic Active 1 1 1 1 1 1 1
 Alveolar Epithelium, Hyperplasia 3 2
 Alveolus, Infiltration Cellular, Histiocyte 1 1 1 1 1 1 1 1 1
 Nose +
 Foreign Body X X X X X X X X X
 Inflammation 1 2 1 1 1 1 2 2 1 1 1 1
 Glands, Olfactory Epithelium, Hyperplasia
 Trachea +

SPECIAL SENSES SYSTEM

* .. 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 Lab: BAT

DAY ON TEST	FISCHER 344-TACONIC RATS MALE																								ANIMAL ID	males (cont...)
	0595	0638	0635	0727	0777	0777	0777	0533	0739	0668	0767	0655	0767	0666	0677	0666	0777	0677	0777	0551	0777	0517	0777			
250 mg/L	0010	0011	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0010		
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0010		
Iris, Inflammation																								0010	2	
Lens, Cataract					2				1						1									0010		
Retina, Degeneration				1																				0010		
Retina, Gliosis																		2						0010		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0010		
Zymbal's Gland					+																			0010		

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0010	
Mineralization	1	1	1		1	1			1	1				1	1		1	1					3	0010	
Nephropathy	2	4	2	3	2	2	3	2	3	3	4	3	3	3	2	3	2	2	2	4	3	3	4	0010	3
Cortex, Cyst										3														0010	
Pelvis, Dilatation																								0010	2
Renal Tubule, Dilatation																								0010	2
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0010	
Inflammation			1																					0010	4

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
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 Lab: BAT

FISCHER 344-TACONIC RATS MALE 250 mg/L	DAY ON TEST																				* TOTALS						
	0 5 2 6	0 7 2 6	0 5 9 7	0 3 0 9	0 7 2 7	0 7 2 7	0 5 5 8	0 6 0 9	0 7 0 2	0 6 0 7	0 6 9 4	0 6 9 1	0 7 2 6	0 7 2 6	0 6 8 0	0 5 1 6	0 7 2 6	0 6 0 3	0 7 2 7	0 7 2 7		0 6 2 2	0 7 2 2	0 6 2 2	0 6 2 9	0 6 8 7	
ANIMAL ID	0 0 1 3 4	0 0 1 3 5	0 0 1 3 6	0 0 1 3 7	0 0 1 3 8	0 0 1 3 9	0 0 1 4 0	0 0 1 4 1	0 0 1 4 2	0 0 1 4 6	0 0 1 4 7	0 0 1 4 8	0 0 1 5 9	0 0 1 5 0	0 0 1 5 1	0 0 1 5 2	0 0 1 5 3	0 0 1 5 4	0 0 1 5 5	0 0 1 5 6	0 0 1 5 7	0 0 1 6 0	0 0 1 6 1	0 0 1 6 2	0 0 1 6 3	0 0 1 6 4	
Mixed Cell Focus	X																								2		
Necrosis																									1	3.0	
Bile Duct, Hyperplasia	2	2	2		2	2	2	1	1	2	2	1	2	2	1	1	2	1	3	1	2	1	1	2	2	48	1.7
Mesentery																									4		
Fat, Necrosis																									2	2.3	
Oral Mucosa	+																								50		
Pancreas	+																								50		
Atrophy	1		1			1		1					1						3					2	3	19	1.4
Acinus, Hyperplasia																									2	2.0	
Salivary Glands	+																								50		
Stomach, Forestomach	+																								50		
Inflammation																									4	2.3	
Ulcer																									2	2.3	
Epithelium, Hyperplasia																									4	2.1	
Stomach, Glandular	+																								50		
Inflammation																									1	2.0	
Tongue	+																								50		

CARDIOVASCULAR SYSTEM

Blood Vessel	+																								50	
Aorta, Mineralization																									1	2.0
Heart	+																								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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE 250 mg/L	DAY ON TEST																				* TOTALS			
	05	07	05	03	07	07	05	06	07	06	06	06	07	07	06	05	07	07	06	07			07	06
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	
	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	3	3	4	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6	
	4	5	6	7	8	9	0	1	2	6	7	8	9	0	1	2	3	4	5	6	7	0	1	
Cardiomyopathy	2	2	2		3	2	1	1	2	3	1	2	3	2	2	1	3	3	1	1	3	3	2	2
Mineralization											1													
Atrium, Inflammation	1																							
Atrium, Thrombosis	1									3								3		2		2	3	

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50					
Degeneration, Cystic																					1					1	1.0		
Hyperplasia																						1					2	1.5	
Hypertrophy																						2						3	1.7
Vacuolization Cytoplasmic									2				2		2							1						9	1.3
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Hyperplasia	2						1	1	1																			18	1.9
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Hyperplasia					2																							2	2.0
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48				
Hyperplasia												2																1	2.0
Pituitary Gland	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49				
Pars Distalis, Hyperplasia	1			4		3	2										3	1										14	2.3
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
C-cell, Hyperplasia			1		2					1		1	2	1							1		2	1				20	1.4

GENERAL BODY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X .. Lesion present
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 M .. Missing tissue
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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE 250 mg/L	DAY ON TEST																				* TOTALS								
	0 5 2 6	0 7 2 6	0 5 9 6	0 3 0 9	0 7 2 7	0 7 2 7	0 5 5 8	0 6 0 9	0 7 0 2	0 6 0 7	0 6 9 4	0 6 9 1	0 7 2 6	0 6 8 0	0 5 1 6	0 7 2 6	0 6 0 3	0 7 2 7	0 7 2 7	0 7 2 2		0 6 2 9	0 6 2 7	0 6 2 8	0 6 2 9				
ANIMAL ID	0 1 3 4	0 0 3 5	0 0 3 6	0 0 3 7	0 0 3 8	0 0 3 9	0 0 4 0	0 0 4 1	0 0 4 2	0 0 4 3	0 0 4 4	0 0 4 5	0 0 4 6	0 0 5 7	0 0 5 8	0 0 5 9	0 0 5 0	0 0 5 1	0 0 5 2	0 0 5 3	0 0 5 4	0 0 5 5	0 0 5 6	0 0 6 7	0 0 6 8	0 0 6 9			
Mediastinal, Infiltration Cellular, Mast Cell																											1	2.0	
Lymph Node, Mandibular Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hematopoietic Cell Proliferation		1		1	1	1	1	2	1				1	1	2	3		2	2	1	1	1				31	1.5		
Hyperplasia, Lymphoid																											1	2.0	
Infarct																											1	2.0	
Pigmentation, Hemosiderin		2	1	1	1	1	1	1	1			1	1	1	1				1	1	1	1				36	1.1		
Red Pulp, Atrophy																											1	2.0	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47		
Atrophy	3	3	4	2	3	3	2	4	3		3	3	3	3	3	3	3	2	3	3	3	3	3	3	M	4	46	3.1	
INTEGUMENTARY SYSTEM																													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																											1	1.0	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia, Squamous																											1	3.0	
Inflammation		2																						3			5	2.6	
Ulcer																											3	3.0	
Epidermis, Hyperkeratosis																											1	3.0	
Epidermis, Hyperplasia		2																						3			5	2.2	
MUSCULOSKELETAL SYSTEM																													

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 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																								* TOTALS
	0526	0726	0927	0309	0707	0707	0508	0609	0709	0607	0606	0706	0707	0606	0507	0706	0506	0707	0606	0707	0707	0606	0707	0606	
250 mg/L	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
ANIMAL ID	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	
	34	35	36	37	38	39	40	41	42	46	47	48	49	50	51	52	53	54	55	56	57	60	61	62	

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Iris, Inflammation																										1	2.0
Lens, Cataract									1			1														5	1.2
Retina, Degeneration												2														2	1.5
Retina, Gliosis		1																								2	1.5
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Zymbal's Gland				+																						2	

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Mineralization		1	1			1			1					1	2								1			21	1.1
Nephropathy	3	3	4	1	3	2	2	4	3	2	2	4	2	2	2	4	3	3	3	4	4	4	3	2		49	2.8
Cortex, Cyst																										1	3.0
Pelvis, Dilatation															2											2	2.0
Renal Tubule, Dilatation															1											2	1.5
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation																										2	2.5

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE 500 mg/L	DAY ON TEST																								males (cont...)
	0621	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	0726	
ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0012	0013	0014	0015	0016	0017	0018	0022	0023	0024	0028	0029	0030	0031	0032	
Inflammation, Chronic Active Mixed Cell Focus		2	1	1	1	1	1	1	1		1	1		1	1	1	2	1	1	1	1		1	1	
Necrosis			X		X				X					X					X						
Pigmentation, Hemosiderin Regeneration			2						1								4							2	
Bile Duct, Hyperplasia	1	2	2	2	2	2	2	1	2	2	2	2	1	2	2	2		2	1	1	2	2	2	2	
Hepatocyte, Degeneration																									
Oval Cell, Hyperplasia																									
Mesentery Fat, Necrosis	+																+	+							
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pancreas Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Acinus, Hyperplasia				1	2		4						2		1					1		1		1	
Salivary Glands Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ulcer																								3	
Epithelium, Hyperplasia																								3	
Stomach, Glandular Erosion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																								1	
Mineralization																									

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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																								ANIMAL ID	males (cont...)
	0 6 2 1	0 7 2 6	0 7 2 6	0 7 2 7	0 6 1 1	0 7 2 7	0 7 2 6	0 5 8 7	0 7 2 6	0 7 2 7	0 7 2 7	0 7 2 7	0 7 2 7	0 7 2 7	0 7 2 7	0 6 3 5	0 7 0 2	0 6 1 8	0 7 2 7	0 6 6 5	0 6 8 7	0 6 5 7	0 6 8 5	0 4 5 3		
500 mg/L	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 8	0 0 2 0 9	0 0 2 1 2	0 0 2 1 3	0 0 2 1 4	0 0 2 1 5	0 0 2 1 6	0 0 2 2 7	0 0 2 2 8	0 0 2 2 9	0 0 2 2 0	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 3 7	

Epithelium, Hyperplasia

1

Tongue
Epithelium, Hyperplasia

+
2

CARDIOVASCULAR SYSTEM

Blood Vessel
Aneurysm
Inflammation

+
3
2 1 1

Heart
Cardiomyopathy
Atrium, Thrombosis

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

ENDOCRINE SYSTEM

Adrenal Cortex
Degeneration, Cystic
Hyperplasia
Mineralization
Vacuolization Cytoplasmic

+
1
1 1 1 1 1 1

Adrenal Medulla
Hyperplasia

+
1 1 1 2 2 4 1 4 3

Islets, Pancreatic

+ + + + + + + + + + + + + + + M + + + + + + + +

Parathyroid Gland
Hyperplasia

+ + + + + + + + + + + + + + + M + + + + + + + +
1

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Experiment Number: 96014 - 05
 Test Type: CHRONIC
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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|-------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| | 061 | 072 | 076 | 077 | 061 | 072 | 076 | 077 | 058 | 072 | 076 | 077 | 077 | 077 | 077 | 077 | 066 | 076 | 077 | 066 | 066 | 066 | 066 | 045 | |
| 500 mg/L | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | |
| ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 022 | 023 | 024 | 028 | 029 | 030 | 031 | 033 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 2 | 1 | | 1 | 4 | | | | | | | 2 | | | | 2 | | | | | | | | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 2 | | | | | 3 | | | 2 | 1 | 3 | | 1 | 1 | | | | 2 | 1 | | | | 2 | 3 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis
Atrophy
Mesothelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Preputial Gland
Hyperplasia
Duct, Hyperplasia, Squamous
Duct, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 2 | | | | | | | | | | 2 | | | | | | | | | | |
| Prostate
Cyst
Inflammation
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 1 | | 2 | 3 | 1 | 1 | 2 | 1 | 2 | |
| | | | | | 2 | | | | 1 | | | | 1 | 1 | 2 | 1 | | | | | | | | |
| Seminal Vesicle
Hyperplasia
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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 2) Mild 4) Marked

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| | | 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 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 6 | 6 | 4 | | |
| FISCHER 344-TACONIC RATS MALE | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 8 | 2 | 0 | 2 | 2 | 2 | 2 | 3 | 0 | 1 | 2 | 6 | 8 | 5 | 8 | 5 | | |
| | | 1 | 6 | 6 | 7 | 1 | 7 | 6 | 7 | 6 | 2 | 7 | 7 | 7 | 7 | 5 | 2 | 8 | 7 | 5 | 7 | 5 | 3 | 3 | | |
| 500 mg/L | | 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 | 2 | 2 | 2 | 2 | 2 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 2 | 3 | 4 | 8 | 9 | 0 | 1 | 2 | 3 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|---|--|---|---|---|---|--|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|
| Atrophy | 4 | | 1 | | | 4 | | | | 2 | | | | | 4 | 1 | | 4 | | 3 | | | | |
| Germinal Epithelium, Degeneration | | | | | 2 | | 1 | | | | | | | | | 2 | 2 | | 2 | | 2 | | | 3 |
| Interstitial Cell, Hyperplasia | 3 | | 3 | | 4 | 2 | 1 | 2 | | | 2 | 2 | 2 | | | | | 1 | 2 | 1 | 3 | 2 | 3 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | 3 | 4 | | 3 | 2 | 3 | 1 | 1 | 2 | | 2 | 1 | 2 | 2 | | 3 | | | 2 | 2 | | 2 |
| Hemorrhage | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Hyperplasia | 4 | 2 | | | | | | | | | 4 | | | | 3 | 3 | 1 | | | | 3 | 4 | | |
| Lymph Node | | | | | | | | | | | | | | + | | | | | | | | | | + |
| Lumbar, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | | | | | | | | | | 2 | | | | | | | | | | | | | 3 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | 2 | 1 | 1 | | 1 | 1 | | | 1 | | 1 | 1 | | 2 | 1 | 2 | | | | 1 | 1 | | 1 | |
| Pigmentation, Hemosiderin | | | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | | 1 |
| Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pulp, Atrophy | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| | | 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 | | 0 | 0 |
| FISCHER 344-TACONIC RATS MALE | | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 6 | 6 | | 6 | 4 |
| 500 mg/L | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 8 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 0 | 1 | 2 | 6 | 8 | 5 | 8 | | 5 | 3 |
| | | 1 | 6 | 6 | 7 | 1 | 7 | 6 | 7 | 6 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 2 | 8 | 7 | 5 | 7 | 5 | 7 | 5 | 3 | |
| | | 0 | 0 | 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 | |
| | | 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 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 2 | 3 | 4 | 8 | 9 | 0 | 1 | 2 | 3 | | |

Atrophy 4 3 3 3 3 3 3 4 3 4 3 3 3 3 3 2 3 4 4 3 4 3 4 3 4 3

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | | | 2 | | 2 | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | 1 | | | 1 | | | | | | | 1 | 1 | | 1 | 1 | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | 4 | | | | | 2 | | | | 2 | 2 | 1 | 3 | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | 1 | 1 | 1 | 1 | 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: 96014 - 05
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Species/Strain: RATS/F344/N Tac

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CAS Number: 71133-14-7

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

| FISCHER 344-TACONIC RATS MALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| | 0621 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | |
| ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0022 | 0023 | 0024 | 0028 | 0029 | 0030 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | X | | | X | | | X | X | | X | X | | | X | | | X | | |
| Inflammation | | | | 2 | | | 1 | | | 1 | 1 | 2 | | | 1 | | 1 | | 1 | 1 | 1 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 3 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Mineralization | 1 | | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | | 1 | | | |
| Nephropathy | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 2 | 1 | | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 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
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 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0587 | 0777 | 0777 | 0493 | 0646 | 0777 | 0777 | 0777 | 0777 | 0666 | 0466 | 0666 | 0777 | 0555 | 0777 | 0666 | 0777 | 0555 | 0777 | 0666 | 0777 | 0666 | 0777 | 0666 | |
| 500 mg/L | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | |
| | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | X | X | | | X | X | | | | | | | | | | | | | X | | X | | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | 1 | | | 2 | | | | | | | | | | | | | | | | | | | 3 1.3 |
| Basophilic Focus | | | | | | X | | X | X | | | | | X | | | | | X | | | X | X | | 17 |
| Clear Cell Focus | | | X | X | | X | | X | | | | | | X | | | | X | X | X | X | X | X | | 21 |
| Degeneration, Cystic | | | 1 | | 1 | 1 | | | | | | 1 | | | | 2 | | 1 | 2 | | | | | | 11 1.3 |
| Eosinophilic Focus | | | X | | X | | X | X | | | | | | X | | | | | X | | | | | | 7 |
| Fatty Change | | | | | | | | | | | | 2 | | | | | | | | | | | | | 4 1.8 |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Fibrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hemorrhage | | | | | | | | | | | | | 4 | | | | | | | | | | | | 1 4.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | X | | | | | | 3 |

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 + .. Tissue examined microscopically
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| FISCHER 344-TACONIC RATS MALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|-----|-----|-----|
| | 0587 | 0727 | 0777 | 0493 | 0646 | 0777 | 0777 | 0777 | 0777 | 0646 | 0466 | 0666 | 0777 | 0577 | 0777 | 0666 | 0777 | 0577 | 0777 | 0666 | 0777 | 0666 | 0777 | | | | | |
| ANIMAL ID | 00236 | 00033 | 00033 | 00033 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00055 | 00066 | 00077 | 00088 | 00099 | 00100 | 00111 | 00122 | 00133 | 00144 | 00155 | 00166 | 00177 | | | | | |
| Inflammation, Chronic Active Mixed Cell Focus | | 1 | 1 | 1 | 1 | 1 | | | | | 1 | | | | | 1 | 1 | | 1 | 1 | | 1 | 1 | 36 | 1.1 | | | |
| Necrosis | | | | | | | | | | | | | | 4 | | | | | | | | | X | | 4 | 2.8 | | |
| Pigmentation, Hemosiderin | | | | 1 | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | | |
| Regeneration | | | | | | | | | | | | | 3 | | | | | | | | | | | | 1 | 3.0 | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 | 1.0 | | |
| Bile Duct, Hyperplasia | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 49 | 1.8 | |
| Hepatocyte, Degeneration | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | 1.0 | | |
| Oval Cell, Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Mesentery Fat, Necrosis | | | | | | | | | | | | + | + | | | | | | | | | + | + | | 9 | | | |
| | | | | | | | | | | | | | 4 | | | | | | | | | 1 | | 2 | 3 | 2.3 | | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Pancreas Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Acinus, Hyperplasia | | | | 1 | | | | | 2 | | | | | | | 2 | | | | | 1 | | 1 | 1 | | 2 | 15 | 1.5 |
| | | | | | | | | | | | | | | | | | | | | | | 4 | 3 | | | 3 | 3.7 | |
| Salivary Glands Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Stomach, Forestomach Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Ulcer | 2 | | | | | | | | | | | | | | | | | | 1 | | 2 | | | | 4 | 2.0 | | |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | 3 | | 1 | | | 4 | 2.0 | |
| Stomach, Glandular Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Inflammation | | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 | 2.0 | | |
| Mineralization | | | | | | | | | | | | 2 | | | | | | | | | | | | | 2 | 1.5 | | |
| | | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 | 2.0 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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|--------------------------------------|-----------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| FISCHER 344-TACONIC RATS MALE | | 5 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 6 | 4 | 6 | 6 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | | |
| | | 8 | 2 | 2 | 9 | 4 | 2 | 2 | 1 | 8 | 4 | 0 | 9 | 2 | 1 | 2 | 7 | 8 | 6 | 8 | 2 | 7 | 2 | 2 | | |
| | 500 mg/L | 7 | 7 | 7 | 3 | 6 | 6 | 6 | 7 | 2 | 8 | 2 | 5 | 9 | 6 | 3 | 4 | 4 | 6 | 5 | 6 | 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 | * TOTALS | |

Epithelium, Hyperplasia 1 1.0

Tongue Epithelium, Hyperplasia 50 1 2.0

CARDIOVASCULAR SYSTEM

Blood Vessel Aneurysm Inflammation 50 1 3.0 3 1.3

Heart Cardiomyopathy Atrium, Thrombosis 50 48 1.9 7 1.9

ENDOCRINE SYSTEM

Adrenal Cortex Degeneration, Cystic Hyperplasia Mineralization Vacuolization Cytoplasmic 50 1 1.0 2 1.0 1 1.0 17 1.1

Adrenal Medulla Hyperplasia 50 15 1.9

Islets, Pancreatic 49

Parathyroid Gland Hyperplasia 46 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
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| FISCHER 344-TACONIC RATS MALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0587 | 0727 | 0727 | 0493 | 0646 | 0727 | 0727 | 0727 | 0727 | 0646 | 0466 | 0666 | 0727 | 0573 | 0727 | 0666 | 0727 | 0573 | 0727 | 0666 | 0727 | 0666 | 0727 | 0666 | |
| ANIMAL ID | 00236 | 00237 | 00238 | 00239 | 00240 | 00241 | 00242 | 00243 | 00244 | 00245 | 00246 | 00247 | 00248 | 00249 | 00250 | 00251 | 00252 | 00253 | 00254 | 00255 | 00256 | 00257 | 00258 | 00259 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 18 | 2.1 |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 21 | 1.8 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|----|-----|----|-----|
| Epididymis
Atrophy
Mesothelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 5 | 1.4 | 1 | 2.0 | | |
| Preputial Gland
Hyperplasia
Duct, Hyperplasia, Squamous
Duct, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.0 | 1 | 2.0 | 1 | 4.0 |
| Prostate
Cyst
Inflammation
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 | 45 | 1.6 | 12 | 1.7 |
| Seminal Vesicle
Hyperplasia
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 | 2 | 3.0 | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
| | 0587 | 0777 | 0777 | 0493 | 0646 | 0777 | 0777 | 0777 | 0777 | 0646 | 0466 | 0667 | 0667 | 0577 | 0577 | 0676 | 0777 | 0577 | 0777 | 0676 | 0777 | 0676 | 0777 | | |
| ANIMAL ID | 00236 | 00033 | 00033 | 00033 | 00044 | 00044 | 00044 | 00044 | 00044 | 00055 | 00066 | 00066 | 00077 | 00088 | 00099 | 00100 | 00100 | 00100 | 00100 | 00100 | 00100 | 00100 | 00100 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|--|---|---|--|--|--|--|---|---|---|---|--|--|---|--|---|--|---|---|--|--|---------------|
| Atrophy | 2 | | | | | | | | | 4 | 2 | 4 | | | | 2 | | 4 | | 1 | 3 | | | 16 2.8 |
| Germinal Epithelium, Degeneration | | | | | | | | | | | 3 | | | | | | | | | | | | | 8 2.1 |
| Interstitial Cell, Hyperplasia | 4 | 3 | | 1 | 4 | | | | | 3 | | | 3 | | | 2 | | 2 | | 3 | | | | 24 2.4 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|---------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | 2 | 2 | 1 | 2 | 2 | 1 | | 3 | | | 3 | | 1 | | 1 | | 2 | 3 | 2 | 3 | 4 | 3 | 2 | 34 2.1 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Hyperplasia | 2 | | | | | | | 3 | 3 | 4 | 3 | 2 | 4 | | 4 | | 3 | | 1 | 2 | 3 | | | 20 2.9 | | |
| Lymph Node | | | | | | | + | | + | | | + | + | | | + | | + | | | | | | 8 | | |
| Lumbar, Ectasia | | | | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Lumbar, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 | | |
| Mediastinal, Hyperplasia | | | | | | | | | | | | | | | | | | 2 | | | | | | 1 2.0 | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | 3 | | | | | | | | | | | 1 3.0 | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Ectasia | | | | | | 3 | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hematopoietic Cell Proliferation | 1 | 1 | 1 | | | 1 | | 1 | 3 | | 2 | | | 1 | 2 | | | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 31 1.3 |
| Pigmentation, Hemosiderin | | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | 1 | | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 32 1.0 | |
| Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | 2 | | | | | | | | | | 2 | | | 3 2.0 | | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | 4 | | | 1 4.0 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | 48 | | |

* .. 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
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Experiment Number: 96014 - 05
 Test Type: CHRONIC
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 Water disinfection byproducts (Bromodichloroacetic acid)
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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|
| | 0587 | 0727 | 0777 | 0493 | 0646 | 0777 | 0777 | 0777 | 0777 | 0646 | 0466 | 0666 | 0777 | 0575 | 0777 | 0666 | 0777 | 0575 | 0777 | 0272 | 0272 | 0666 | 0466 | 0777 | | |
| ANIMAL ID | 00236 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 | 00051 | 00052 | 00053 | 00054 | 00055 | 00056 | 00057 | 00058 | 00059 | 00060 | |
| Atrophy | 3 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | | | 3 | 3 | 3 | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 46 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 3.2 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Skin Cyst Epithelial Inclusion | X | | | | | | | | | | | | | | | | | | | | | | X | | 50 | |
| Inflammation | 3 | | 3 | | | | | | | | 2 | | | | | | | | | | | | 2 | | 2 | |
| Ulcer | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Epidermis, Hyperkeratosis | | | | | | | | | | | 4 | | | | | | | | | | | 4 | | | 2 | |
| Epidermis, Hyperplasia | 2 | | | | | | | | | | 2 | | | | | | | | | | | 2 | | | 5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 4.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | + | | | | | | | | | | | | | 2 |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|--|---|--|---|---|---|--|---|--|---|---|---|---|--|---|---|---|--|---|---|---|-----|
| Lung Inflammation, Chronic Active | 1 | | | | | | | | | | | | | | 1 | | | | | | | | 1 | | 11 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| Alveolar Epithelium, Hyperplasia | | | 4 | | | | | 1 | | | | | 1 | | | 4 | | | | | | | 3 | 1 | 12 |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | | | 1 | | 1 | | 1 | | 1 | | 1 | 1 | 1 | | | 1 | | 1 | | 1 | | 1 | 25 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2.3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 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:
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500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--------|--------|
| | 0587 | 0727 | 0743 | 0764 | 0776 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | |
| ANIMAL ID | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | | | | | | X | | | | | | X | | | 10 | |
| Inflammation | | | | | | | | | | | | | 2 | | | | | | 1 | 2 | | 14 1.3 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Retina, Degeneration | | | | | | | | | | | | | | | 1 | | | | | 1 | | 3 1.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Mineralization | 1 | 1 | | 1 | | | | 1 | 2 | | 1 | 1 | 1 | | | 1 | 1 | | | | 1 | 25 1.0 | |
| Nephropathy | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 2 | 3 | 4 | 3 | 3 | 2 | 49 2.4 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|-------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| FISCHER 344-TACONIC RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1000 mg/L | | 7 | 6 | 6 | 6 | 5 | 7 | 4 | 6 | 7 | 5 | 7 | 6 | 6 | 6 | 7 | 5 | 4 | 7 | 5 | 6 | 5 | 7 | 7 | 7 | |
| ANIMAL ID | | 2 | 5 | 5 | 7 | 6 | 0 | 8 | 4 | 2 | 8 | 2 | 6 | 4 | 2 | 2 | 8 | 3 | 2 | 4 | 0 | 7 | 2 | 2 | 0 | |
| | | 7 | 7 | 3 | 4 | 1 | 5 | 1 | 2 | 6 | 7 | 6 | 4 | 4 | 9 | 7 | 6 | 6 | 7 | 8 | 2 | 3 | 6 | 7 | 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 | 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 |
| | | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| | | 4 | 5 | 6 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 8 | 9 | 0 | 3 | 4 | 5 | 6 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | X | + | + | + | X | + | + | + | + | + | + | + | X | + | + | X |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | 1 | | | | 1 | | | | | | | | | | | | | | | | | 1 | | |
| Basophilic Focus | | X | | X | | X | | | | | X | | | | X | | | X | | | X | X | X | | X |
| Clear Cell Focus | X | | | | | | | | | X | X | X | | | X | | | X | | | | X | X | | |
| Congestion | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | 1 | 1 | 1 | | | | | | | 1 | | | | 1 | | | | 1 | | | 1 | | 1 |
| Eosinophilic Focus | | | | X | | X | | | | | | X | X | | X | | | | | | X | X | X | | X |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Focal | | | | 1 | | | | | | | | | | | | | | | 1 | | 1 | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | 1 | 1 | 2 | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| FISCHER 344-TACONIC RATS MALE

1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|----|----|
| | 07 | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 | 05 | | | 07 | 07 |
| | 2 | 5 | 5 | 7 | 6 | 0 | 8 | 4 | 2 | 8 | 2 | 6 | 4 | 2 | 8 | 3 | 2 | 4 | 0 | 7 | 2 | 2 | 0 | 2 | |
| | 7 | 7 | 3 | 4 | 1 | 5 | 1 | 2 | 6 | 7 | 6 | 4 | 4 | 9 | 7 | 6 | 6 | 7 | 8 | 2 | 3 | 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 | |
| | 3 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | |
| | 4 | 5 | 6 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 8 | 9 | 0 | 3 | 4 | 5 | 6 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Necrosis | | | | | | | | | | | 2 | | | | | | | | | | | 2 | | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Bile Duct, Hyperplasia | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 3 | 1 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | |
| Hepatocyte, Degeneration | | | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | + | + | | | | | | | | | | | + | | | | | | + | + | | |
| Fat, Necrosis | | | | 1 | | | | | | | | | | | | | | | | 1 | | | | | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 1 | 1 | | | | 1 | | | | 1 | 4 | | | | | 2 | 1 | | 1 | 1 | | | | 2 | 1 |
| Acinus, Hyperplasia | | | | | | | | | | | 3 | | | | | | | | | | | | | 2 | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Erosion | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Tongue | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epithelium, Hyperplasia | | | | | | | | | 3 | 2 | | | | | | | | | | | | | | | |

CARDIOVASCULAR 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|-------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|----|----|----|
| | 07 | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 | | | 05 | 07 | 07 |
| 1000 mg/L | 27 | 57 | 53 | 74 | 61 | 05 | 81 | 42 | 26 | 87 | 26 | 44 | 29 | 27 | 86 | 36 | 27 | 48 | 02 | 73 | 26 | 26 | 07 | 26 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | |
| | 00 | 00 | 00 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | |
| | 45 | | 66 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 88 | 99 | 00 | 33 | 44 | 55 | 66 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 3 | 2 | 2 | | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 3 | 2 |
| Atrium, Thrombosis | | | | | | | | | | | | | | 3 | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | 1 | | | | 1 | | | | | | | | 1 | 1 | | | | | 1 | | 1 | 1 | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | 1 | 3 | | 2 | | | | | | 2 | | | | 3 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Parathyroid Gland | + | + | + | + | + | + | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Hyperplasia | 1 | | | | 1 | | | | 1 | | 1 | | | | 4 | | | | 1 | | | | | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | | 4 | 1 | | | 4 | | 1 | | | | | | | 1 | 1 | 1 | | 1 | 1 | | 4 | 2 | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | 4 | | | | | | | | | | | | | | | | |

GENERAL BODY 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|-------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|----|----|
| | 07 | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 | | 05 | 07 |
| 1000 mg/L | 27 | 56 | 56 | 77 | 66 | 08 | 44 | 22 | 88 | 22 | 66 | 44 | 22 | 22 | 88 | 33 | 22 | 44 | 00 | 77 | 22 | 20 | 22 |
| 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 |
| | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| | 00 | 00 | 00 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 |
| | 44 | 55 | 66 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 88 | 99 | 00 | 33 | 44 |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 2 | 2 | | 1 | 2 | 2 | 1 | | 1 | | 2 | | | 3 | 1 | 2 | | 3 | | 1 | | 1 | 3 |
| Epithelium, Hyperplasia | 3 | | | | | | | | | | | | | 3 | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 2 | 2 | | | | | | | | | | | | 4 | | | | | | | 2 | 1 |
| Germinal Epithelium, Degeneration | | 2 | | | | | | | | | | | | 2 | 4 | 1 | | | | | | 3 | |
| Interstitial Cell, Hyperplasia | | | | 3 | | 2 | 1 | | 2 | | 3 | 2 | | 4 | 2 | | 2 | | | | | 1 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | 2 | 1 | 3 | 3 | 3 | 1 | 2 | 1 | | 2 | | 3 | 2 | 2 | 3 | | | 3 | | 2 | 1 | 1 | 3 |
| Hyperplasia | | | 1 | 2 | 3 | 4 | 4 | 2 | | | 1 | 1 | 1 | 4 | 3 | | | 4 | | 2 | 4 | 3 | |
| Myelofibrosis | | | | 1 | | | | | | | | | | | | | | | | | | | 1 |
| Thrombosis | | | | | | | | | | | | | | | 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
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Experiment Number: 96014 - 05
Test Type: CHRONIC
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CAS Number: 71133-14-7

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Time Report Requested: 08:02:51
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

| DAY ON TEST | FISCHER 344-TACONIC RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | | | |
|-------------|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| | 0
7
2
7 | 0
7
5
7 | 0
6
5
3 | 0
6
5
4 | 0
6
7
1 | 0
5
6
5 | 0
7
4
1 | 0
4
8
2 | 0
6
4
6 | 0
7
2
7 | 0
5
8
6 | 0
7
2
6 | 0
6
4
4 | 0
6
2
9 | 0
7
2
7 | 0
5
8
6 | 0
4
3
6 | 0
7
2
7 | 0
5
4
0 | 0
6
7
3 | | 0
7
2
6 | 0
7
2
7 | 0
7
2
6 | |
| 1000 mg/L | 0
0
3
0
4 | 0
0
3
0
5 | 0
0
3
0
6 | 0
0
3
1
0 | 0
0
3
1
2 | 0
0
3
1
3 | 0
0
3
1
4 | 0
0
3
1
5 | 0
0
3
1
6 | 0
0
3
1
7 | 0
0
3
1
8 | 0
0
3
1
9 | 0
0
3
2
0 | 0
0
3
2
1 | 0
0
3
2
2 | 0
0
3
2
3 | 0
0
3
2
4 | 0
0
3
2
8 | 0
0
3
2
9 | 0
0
3
3
0 | 0
0
3
3
3 | 0
0
3
3
4 | 0
0
3
3
5 | 0
0
3
3
6 | males
(cont...) |

- Lymph Node
 - Iliac, Ectasia
 - Iliac, Hyperplasia, Lymphoid
 - Iliac, Necrosis, Lymphoid
 - Inguinal, Ectasia
 - Mediastinal, Infiltration Cellular, Histiocyte
 - Mediastinal, Infiltration Cellular, Plasma Cell
 - Pancreatic, Inflammation, Histiocytic
 - Renal, Infiltration Cellular, Histiocyte

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | 3 | | | | | 3 | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Hemorrhage | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | 1 | 2 | 3 | 1 | | 3 | 3 | | | 3 | 1 | | 1 | 3 | | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | |
| Hemorrhage | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | 1 | 1 | | | | | 1 | 1 | 1 | | 1 | | | | | 1 | | 1 | 1 | | | 1 | 1 | 2 | |
| Stromal Hyperplasia | | | | | | | | | | | | | X | X | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 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:
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 Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|
| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | 7 | 6 | 6 | 6 | 5 | 7 | 4 | 6 | 7 | 5 | 7 | 6 | 6 | 6 | 7 | 5 | 4 | 7 | 5 | 6 | 5 | 7 | 7 | 7 | 7 | |
| | | 2 | 5 | 5 | 7 | 6 | 0 | 8 | 4 | 2 | 8 | 2 | 6 | 4 | 2 | 8 | 3 | 2 | 4 | 0 | 7 | 2 | 2 | 0 | 0 | 2 | |
| | | 7 | 7 | 3 | 4 | 1 | 5 | 1 | 2 | 6 | 7 | 6 | 4 | 4 | 9 | 7 | 6 | 6 | 7 | 8 | 2 | 3 | 6 | 6 | 7 | 6 | |
| 1000 mg/L | 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 | |
| | | 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 | |
| | | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 4 | 5 | 6 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 8 | 9 | 0 | 3 | 4 | 5 | 6 | males
(cont...) |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | 4 | | | | | | | 4 | | | | | 4 | | 2 | | | |
| Ulcer | | | | | | | | 3 | | | | | | | 2 | | | | | 4 | | | | | |
| Dermis, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperkeratosis | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | 4 | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cartilage, Sternum, Degeneration | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Tibia, Fracture | | | | | | | | | | | | | | X | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Meninges, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | 3 | 1 | | | 2 | | 1 | | 1 | | 1 | | | | 1 | 1 | 2 | | | | 1 | 2 | | |
| Alveolar Epithelium, Hyperplasia | | | | | 3 | | | | 1 | | | | | 1 | 4 | | | 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

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Date Report Requested: 03/05/2013
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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|-------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|----|----|----|
| | 07 | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 | | 05 | 07 | 07 |
| 1000 mg/L | 27 | 57 | 53 | 74 | 61 | 05 | 81 | 42 | 26 | 87 | 26 | 44 | 24 | 29 | 77 | 86 | 36 | 27 | 48 | 02 | 37 | 26 | 07 | 02 |
| 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 |
| | 30 | 30 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 |
| | 45 | 66 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 08 | 09 | 00 | 03 | 04 | 05 | 06 |

Alveolar Epithelium, Hypertrophy
 Alveolus, Infiltration Cellular, Histiocyte

1
 3 1 1 2 1 1 2 1 1 1 2 1 1 1 2

Nose
 Foreign Body
 Inflammation
 Olfactory Epithelium, Metaplasia

+
 X X X X X X X
 1 2 1 1 2 1 1 2 1 1
 1

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye
 Anterior Chamber, Inflammation
 Cornea, Inflammation
 Lens, Cataract
 Retina, Degeneration
 Retina, Dysplasia

+
 3
 4 3

Harderian Gland
 Hyperplasia, Squamous
 Metaplasia, Squamous

+
 3
 2

Zymbal's Gland

+ +

URINARY SYSTEM

Kidney
 Mineralization
 Nephropathy
 Renal Tubule, Hyperplasia, Atypical

+
 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 2 2 2 2
 1 1 2 1 1 2 1 1 2 1 3 3 1 1 1 1 2 2 1 1 1 2 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| FISCHER 344-TACONIC RATS MALE

1000 mg/L | DAY ON TEST | 07 | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 | 05 | 07 | 07 | 07 | 07 |
| | ANIMAL ID | 0030 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 |
| | | 7 | 7 | 3 | 4 | 1 | 5 | 1 | 2 | 6 | 7 | 6 | 4 | 4 | 9 | 7 | 6 | 6 | 7 | 8 | 2 | 3 | 6 | 6 | 7 | 6 |

males (cont...)

Renal Tubule, Necrosis

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
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 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 07 | 06 | 06 | 06 | 06 | 07 | 04 | 07 | 07 | 03 | 07 | 06 | 07 | 06 | 07 | 06 | 07 | 07 | 04 | 07 | 07 | 05 | 06 | | |
| 1000 mg/L | 07 | 08 | 08 | 08 | 08 | 07 | 06 | 06 | 06 | 09 | 05 | 04 | 00 | 08 | 07 | 08 | 06 | 06 | 09 | 06 | 06 | 05 | 02 | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | | |
| | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | | |
| | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 8 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Intestine Large, Cecum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Intestine Large, Colon | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| Intestine Large, Rectum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Intestine Small, Duodenum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Intestine Small, Ileum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Intestine Small, Jejunum | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.0 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 14 1.1 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 14 |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 36 1.1 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | 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
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|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 07 | 06 | 06 | 06 | 06 | 07 | 04 | 07 | 07 | 03 | 07 | 06 | 07 | 06 | 07 | 06 | 07 | 07 | 04 | 07 | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| Necrosis | | | | | | | | | | 3 | 2 | | | | 2 | | | | | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | 2 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 |
| Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | 3 | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 077 | 078 | 079 | 080 | 081 | 082 | 083 | 084 | 085 | 086 | 087 | 088 | 089 | 090 | 091 | 092 | 093 | 094 | 095 | 096 | | 097 |
| ANIMAL ID | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 48 1.8 |
| Atrium, Thrombosis | | | 4 | | | 2 | | | | | 3 | | | | | | | | | 1 | | 5 2.6 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Vacuolization Cytoplasmic | | | 2 | | | | | 2 | | | | | | 1 | | | | 1 | | | 2 | 13 1.2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | 3 | 2 | | | 2 | | | | | | | | | 2 | | | | | | | 9 2.2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 44 |
| Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | 1 1.0 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | 48 |
| Pars Distalis, Hyperplasia | | 2 | | | 1 | | 1 | 3 | 1 | | 1 | 1 | | 3 | | 2 | 1 | | 3 | | 2 | 21 1.8 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Hyperplasia | | 1 | 2 | 2 | | 1 | | 1 | 3 | | 1 | 2 | | | | | | 1 | | 2 | 3 | 24 1.8 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

GENERAL BODY 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

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 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|--|
| FISCHER 344-TACONIC RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | 7 | 6 | 6 | 6 | 6 | 7 | 4 | 7 | 7 | 3 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 4 | 7 | 7 | 5 | 6 | | |
| 1000 mg/L | | 2 | 7 | 6 | 2 | 1 | 2 | 6 | 2 | 2 | 8 | 0 | 6 | 1 | 7 | 2 | 7 | 2 | 2 | 9 | 2 | 2 | 7 | 2 | | |
| | | 7 | 8 | 4 | 1 | 0 | 7 | 7 | 6 | 6 | 9 | 5 | 4 | 0 | 8 | 7 | 8 | 6 | 6 | 9 | 6 | 6 | 5 | 9 | | |
| | 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 | | | |
| | | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | | | |
| | | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | * TOTALS | | |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|------------|------------|-----------|------------|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Atrophy | 1 | | | | 1 | | | | | | | | | | 3 | | | | | | | | | | 4 | 1.5 | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Inflammation | | 2 | 2 | 2 | 2 | 2 | | 3 | 1 | 2 | 1 | | 2 | | 2 | 2 | | 1 | 1 | | 2 | 3 | 2 | 1 | 1 | 1 | 3 | 35 | 1.8 |
| Epithelium, Hyperplasia | 1 | 2 | | | | 1 | 2 | 1 | 4 | | 2 | | | | 1 | 1 | | | | | 2 | 1 | 1 | | | 14 | 1.8 | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Hyperplasia | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Atrophy | | | | 2 | 1 | 4 | | | | | 4 | | 3 | 4 | | 4 | 2 | 2 | | | | 1 | | 3 | 3 | 17 | 2.6 | | |
| Germinal Epithelium, Degeneration | | | 2 | 2 | | | | | | | | | | | | | | | 1 | | | | | | 2 | 9 | 2.1 | | |
| Interstitial Cell, Hyperplasia | | | 1 | 1 | 1 | | | | | | | 2 | | | | 2 | 2 | | 1 | | 4 | | 3 | | 19 | 2.1 | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | 1 | 2 | 1 | 3 | 2 | 2 | | | 3 | 1 | 3 | 3 | 3 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | | 3 | 2 | 1 | 40 | 2.1 |
| Hyperplasia | | 2 | 3 | 1 | 4 | | 4 | 3 | | 4 | 3 | 2 | | 3 | 3 | | | | | 3 | | | 3 | 4 | 30 | 2.7 |
| Myelofibrosis | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 | 1.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

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

+ .. Tissue examined microscopically

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M .. Missing tissue

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1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|--------|
| | 07 | 06 | 06 | 06 | 06 | 07 | 04 | 07 | 07 | 03 | 07 | 06 | 07 | 06 | 07 | 06 | 07 | 07 | 04 | 07 | | 07 | 05 |
| 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 |
| | 7 | 6 | 6 | 6 | 6 | 7 | 4 | 7 | 7 | 3 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 4 | 7 | 7 | 5 | 6 |
| | 2 | 7 | 6 | 2 | 1 | 2 | 6 | 2 | 2 | 8 | 0 | 6 | 1 | 7 | 2 | 7 | 2 | 2 | 2 | 9 | 6 | 2 | 2 |
| | 7 | 8 | 4 | 1 | 0 | 7 | 7 | 6 | 6 | 9 | 5 | 4 | 0 | 8 | 7 | 8 | 6 | 6 | 6 | 9 | 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 | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| Lymph Node | | | | | + | | | + | | | + | | + | | | | | + | + | | | + | 7 |
| Iliac, Ectasia | | | | | 2 | | | | | | | | | | | | | | | | | | 1 2.0 |
| Iliac, Hyperplasia, Lymphoid | | | | | 3 | | | | | | | | | | | | | | | | | | 1 3.0 |
| Iliac, Necrosis, Lymphoid | | | | | 2 | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inguinal, Ectasia | | | | | 3 | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mediastinal, Infiltration Cellular, Histiocyte | | | | | | | | | | | 2 | | | | | | | | | | | | 1 2.0 |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 |
| Pancreatic, Inflammation, Histiocytic | | | | | | | | | | | | | | | | | | 3 | | | | | 1 3.0 |
| Renal, Infiltration Cellular, Histiocyte | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | 2 | | | 3 | | | | | | | | | | | | | | | | | 4 2.8 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | 2 2.0 |
| Necrosis | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hematopoietic Cell Proliferation | 1 | 2 | | 2 | | | 2 | | 1 | 4 | 3 | 2 | 1 | | 1 | 3 | 1 | | | 2 | | | 32 1.8 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Infarct | | | | | | | | | | | | | | 4 | | | | | | | | | 1 4.0 |
| Pigmentation, Hemosiderin | 1 | 1 | 1 | 1 | | | | | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 28 1.0 |
| Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Thrombosis | | | | | | | | | | 4 | | | | | | | | | | | | | 1 4.0 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 49 |
| Atrophy | 4 | 3 | 4 | 4 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 3 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|-------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 0
7 | 0
6 | 0
6 | 0
6 | 0
6 | 0
7 | 0
4 | 0
7 | 0
7 | 0
3 | 0
7 | 0
6 | 0
7 | 0
6 | 0
7 | 0
6 | 0
7 | 0
7 | 0
4 | 0
7 | | 0
5 | 0
6 | | | | | | |
| 1000 mg/L | 2 | 7 | 6 | 2 | 1 | 2 | 6 | 2 | 2 | 8 | 0 | 6 | 1 | 7 | 2 | 7 | 2 | 2 | 9 | 2 | 2 | 7 | 2 | 2 | 7 | 5 | 6 | 2 | 9 |
| 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 |
| | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 6 | 6 | 6 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Mammary Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 5 | 3.4 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| Dermis, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 | 2.0 |
| Epidermis, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | 2.0 |
| Epidermis, Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 2 | | | 2 | 2.0 |
| Epidermis, Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Osteopetrosis | 2 | | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | | | 4 | 2.0 |
| Cartilage, Sternum, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Tibia, Fracture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Meninges, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Inflammation, Chronic Active | 2 | | | | | | | 1 | | | | 2 | 1 | 2 | | | | | | | | | | | | | | 1 | 19 | 1.5 | |
| Alveolar Epithelium, Hyperplasia | 3 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 3 | | 1 | 10 | 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

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Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|
| | 07 | 06 | 06 | 06 | 06 | 07 | 04 | 07 | 07 | 03 | 07 | 06 | 07 | 06 | 07 | 06 | 07 | 07 | 04 | 07 | | 07 | 05 |
| 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 |
| Alveolar Epithelium, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | X | X | | | | | | | X | X | 1 | | X | X | | | X | X | | |
| Inflammation | | | | 2 | 1 | | | | 1 | 2 | | 2 | | 2 | 1 | | 1 | 2 | 1 | | 2 | 2 | |
| Olfactory Epithelium, Metaplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | 1 | | | | 2 | 1 | | | | | 1 | | 2 | | |
| Retina, Degeneration | | | | | | | | | | | | | 1 | | | | | | 2 | | 2 | | |
| Retina, Dysplasia | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | | | 1 | 1 | 1 | | 1 | | 1 | 1 | | 1 | | | | | | 1 | | 1 | | |
| Nephropathy | 2 | 1 | 2 | 1 | 1 | 3 | 1 | 3 | 3 | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | 3 |
| Renal Tubule, Hyperplasia, Atypical | | | 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|----------|
| | 07 | 06 | 06 | 06 | 06 | 07 | 04 | 07 | 07 | 03 | 07 | 06 | 07 | 06 | 07 | 06 | 07 | 07 | 04 | 07 | 07 | 05 | 06 | 06 | | |
| 1000 mg/L | 27 | 78 | 64 | 61 | 60 | 27 | 67 | 22 | 26 | 88 | 05 | 64 | 00 | 08 | 07 | 08 | 06 | 06 | 09 | 02 | 06 | 06 | 06 | 06 | | |
| 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 | | |
| | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | | |
| | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 66 | 66 | 66 | 66 | 66 | 66 | | |
| | 90 | 00 | 01 | 02 | 03 | 04 | 05 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | 50 | | |

*** 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
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 BLANK .. Not examined microscopically

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 Species/Strain: RATS/F344/N Tac

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

| DAY ON TEST | FISCHER 344-TACONIC RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|-------------|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-------------------|
| | 04 | 06 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 06 | 07 | 07 | 06 | 07 | 07 | 06 | 07 | 07 | 06 | 06 | 07 | 07 | | |
| 03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 004 | females (cont...) |
| 08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 004 | |
| 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 004 | |
| 01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 004 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Basophilic Focus | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | | X | | X | | | | | | | X | X | X | | | | | X | X | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change | 2 | | 1 | | | | | | | | | | | | 1 | 1 | 1 | | | | 1 | | | 2 |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | 1 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | X | | | | | | | X | | |
| Inflammation, Chronic Active | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | | | | | | X | | | | | X | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | 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
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 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
| | 0
4
3
2 | 0
6
0
8 | 0
6
8
0 | 0
7
2
7 | 0
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2
7 | 0
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2
7 | 0
7
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7 | 0
6
3
5 | 0
7
2
7 | 0
7
2
7 | 0
6
2
8 | 0
7
2
7 | 0
7
2
7 | 0
6
9
4 | 0
7
1
4 | 0
7
0
9 | 0
7
2
8 | 0
7
2
8 | 0
7
2
8 | 0
6
4
5 | 0
6
7
3 | 0
7
2
8 | 0
7
2
8 | | | |
| | 0 | 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
0
1 | | |

Necrosis, Multifocal
 Tension Lipidosis
 Bile Duct, Hyperplasia
 Oval Cell, Hyperplasia

2
 1

Mesentery
 Fat, Necrosis

+
 1 1 1

Pancreas
 Atrophy
 Acinus, Hyperplasia

+
 2 2 1 1 1 1
 2 2

Salivary Glands

+ +

Stomach, Forestomach
 Inflammation
 Ulcer
 Epithelium, Hyperplasia

+
 3
 4
 4

Stomach, Glandular
 Mineralization

+ +

Tongue
 Foreign Body
 Inflammation
 Ulcer
 Epithelium, Hyperplasia

+
 1

CARDIOVASCULAR 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
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 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------------------|-----------|----------------------|
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|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cardiomyopathy | 1 | 1 | 2 | 2 | 1 | 1 | | 1 | | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | | 2 | 1 | 1 | 2 | 2 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration, Cystic | | | | | | | | 1 | | | | 3 | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | 1 | | | | | | | | | 1 | | | | |
| Vacuolization Cytoplasmic | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Hyperplasia | | | 2 | | | | | | | 4 | 3 | | | 2 | | | 4 | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | | | 2 | 1 | 2 | 1 | | 1 | 2 | 2 | | | 2 | | | 2 | 1 | 1 | 2 | 1 | 1 | 1 | | 4 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | | |

GENERAL BODY SYSTEM

NONE

* .. 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

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FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------------------|-----------|----------------------|
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GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | 4 | | | | | 1 | | | | 3 | 4 | | | | | | | | | | |
| Cyst | | | | | 1 | | | | | | 3 | | | | | 1 | | | | | | 3 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cervix, Inflammation | | | | | | | | | | | | 3 | 3 | | | | | | | | | | |
| Cervix, Metaplasia, Squamous | | | | | | | | | | | 2 | 2 | | | | | | | | | | | |
| Cervix, Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 2 | | | | | | | | 3 | | | 2 | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | + |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 3 | 2 | 4 | 3 | | | | | | | | | | 1 | 1 | 2 | | 3 | 2 | | 4 | 1 | 2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | + |

* .. 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
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(cont...) | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|-----------------------|------------------|
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Inguinal, Infiltration Cellular, Plasma Cell
 Mediastinal, Infiltration Cellular, Histiocyte
 Pancreatic, Infiltration Cellular, Histiocyte

Lymph Node, Mandibular
 Infiltration Cellular, Plasma Cell

Lymph Node, Mesenteric
 Atrophy

Spleen
 Hematopoietic Cell Proliferation
 Pigmentation, Hemosiderin
 Capsule, Mineralization
 Lymphoid Follicle, Atrophy

Thymus
 Atrophy

INTEGUMENTARY SYSTEM

Mammary Gland
 Inflammation

Skin
 Cyst Epithelial Inclusion
 Inflammation
 Ulcer
 Epidermis, Hyperplasia, Squamous

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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(cont...) |
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MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | 1 | 1 | 1 | 1 | | 2 | | 1 | | | | | | 1 | | | | 1 | 1 | | |
| Alveolar Epithelium, Hyperplasia | | 1 | 1 | 1 | | | | | 2 | | | | 1 | | | | | 1 | | | | | 2 |
| Alveolar Epithelium, Hypertrophy | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mediastinum, Inflammation | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ciliary Body, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Iris, Inflammation | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------------------|-----------|----------------------|
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| Lens, Cataract | | | | | | | | | | | | | | | | 3 | 2 | | | | | | 2 | | | |
| Posterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | 4 | 3 | | | | | | 4 | | | |
| Retina, Gliosis | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | 1 | | 1 | | | 1 | 1 | | |
| Nephropathy | | 1 | 1 | 1 | | 2 | 3 | 1 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 3 | 3 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 |
| Cortex, Cyst | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 3 | 7 | 6 | 7 | | 7 | 7 | 7 | 7 |
| ANIMAL ID | 4 | 3 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 3 | 2 | 2 | 2 | 3 | 2 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 5 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 1 | 5 | 7 | 8 | 8 | 8 | 0 | 8 | 0 | 8 | 8 | 8 | 7 | 7 | 7 | 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 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 4 | 5 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 6 |
| Necrosis, Multifocal | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bile Duct, Hyperplasia | 1 | 1 | 1 | | | | 1 | 2 | | | 1 | | 1 | 2 | | 1 | | 1 | | | | 1 | 1 | 2 | 28 |
| Oval Cell, Hyperplasia | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | 1 | | | 1 | | | | | | | | | | | | | | | | 1 | | 9 |
| Acinus, Hyperplasia | | | | | 1 | | | | | | | 1 | | | | | | | | | | | 1 | 1 | 6 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| Tongue | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 |

CARDIOVASCULAR 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|---|---|---|
| | 0641 | 0635 | 0672 | 0678 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | | 0677 | 0677 | 0677 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 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 | 4 | 4 | 4 |
| | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 4 | 5 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 1 | 1 | 1 | 1 | | | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | 45 1.5 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Degeneration, Cystic | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 4 1.5 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hypertrophy | | | | | | | 1 | 2 | | | | | | 2 | | | | | | | | | | | | | 5 1.4 |
| Vacuolization Cytoplasmic | 1 | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 2 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | + | + | + | + | + | + | | M | + | + | + | + | + | + | + | | | | | | M | + | + | + | + | | 47 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Hyperplasia | 1 | | | 4 | 1 | | | | | 4 | | | | 1 | 2 | 2 | | | | | 4 | | | | 3 | 2 | 15 2.6 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Hyperplasia | | | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | | 1 | 4 | 1 | | | 3 | | | 2 | | 1 | 1 | | 1 | 33 1.6 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

GENERAL BODY SYSTEM

NONE

* .. 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
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 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| ANIMAL ID | 0
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2 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--------|
| Clitoral Gland | + | | | | | | | | | | | | | | | | | | | | 50 | |
| Cyst | 4 | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation | 4 | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Ovary | + | | | | | | | | | | | | | | | | | | | | 50 | |
| Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | 9 2.9 |
| Cyst | 1 | | | | | | | | | | | | | | | | | | | | | 10 1.5 |
| Infiltration Cellular, Histiocyte | 2 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Uterus | + | | | | | | | | | | | | | | | | | | | | 50 | |
| Cervix, Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Cervix, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Cervix, Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Endometrium, Hyperplasia, Cystic | 1 | | | | | | | | | | | | | | | | | | | | | 10 2.0 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--------|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | 23 2.5 |
| Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | + |
| | | | | | | | | | | | | | | | | | | | | | | + |
| | | | | | | | | | | | | | | | | | | | | | | + |
| | | | | | | | | | | | | | | | | | | | | | | 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

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FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0641 | 0635 | 0672 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | | 0678 |
| ANIMAL ID | 00434 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 4 | 5 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 6 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Mediastinal, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Pancreatic, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Lymph Node, Mandibular
Infiltration Cellular, Plasma Cell | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | 2 | 50 | 1 | 2.0 |
| Lymph Node, Mesenteric
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | 2 | 50 | 4 | 2.5 |
| Spleen
Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | 1 | 50 | 6 | 1.8 |
| Pigmentation, Hemosiderin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | 1 | 50 | 39 | 1.2 |
| Capsule, Mineralization | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | 2 | 5 | 2.2 | |
| Thymus
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | 4 | 48 | 45 | 3.2 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Mammary Gland
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | 50 | 1 | 4.0 |
| Skin
Cyst Epithelial Inclusion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2.0 |
| Epidermis, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 M .. Missing tissue
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FEMALE
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|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|
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MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Osteopetrosis | | | | 3 | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | 2.5 |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic Active | | 1 | | 1 | | 1 | 1 | 1 | | 1 | | | | | | | 1 | | 1 | 1 | | | | 1 | | | | 20 | 1.1 |
| Alveolar Epithelium, Hyperplasia | | | | | 1 | | | | | | | | 1 | | | | | | | | 1 | | | | | | | 11 | 1.3 |
| Alveolar Epithelium, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | | 38 | 1.0 | |
| Mediastinum, Inflammation | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation | 2 | 2 | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 | | 5 | 1.6 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ciliary Body, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Iris, Inflammation | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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181228 | 181728 | 182228 | 182728 | 183228 | 183728 | 184228 | 184728 | 185228 | 185728 | 186228 | 186728 | 187228 | 187728 | 188228 | 188728 | 189228 | 189728 | 190228 | 190728 | 191228 | 191728 | 192228 | 192728 | 193228 | 193728 | 194228 | 194728 | 195228 | 195728 | 196228 | 196728 | 197228 | 197728 | 198228 | 198728 | 199228 | 199728 | 200228 | 200728 | 201228 | 201728 | 202228 | 202728 | 203228 | 203728 | 204228 | 204728 | 205228 | 205728 | 206228 | 206728 | 207228 | 207728 | 208228 | 208728 | 209228 | 209728 | 210228 | 210728 | 211228 | 211728 | 212228 | 212728 | 213228 | 213728 | 214228 | 214728 | 215228 | 215728 | 216228 | 216728 | 217228 | 217728 | 218228 | 218728 | 219228 | 219728 | 220228 | 220728 | 221228 | 221728 | 222228 | 222728 | 223228 | 223728 | 224228 | 224728 | 225228 | 225728 | 226228 | 226728 | 227228 | 227728 | 228228 | 228728 | 229228 | 229728 | 230228 | 230728 | 231228 | 231728 | 232228 | 232728 | 233228 | 233728 | 234228 | 234728 | 235228 | 235728 | 236228 | 236728 | 237228 | 237728 | 238228 | 238728 | 239228 | 239728 | 240228 | 240728 | 241228 | 241728 | 242228 | 242728 | 243228 | 243728 | 244228 | 244728 | 245228 | 245728 | 246228 | 246728 | 247228 | 247728 | 248228 | 248728 | 249228 | 249728 | 250228 | 250728 | 251228 | 251728 | 252228 | 252728 | 253228 | 253728 | 254228 | 254728 | 255228 | 255728 | 256228 | 256728 | 257228 | 257728 | 258228 | 258728 | 259228 | 259728 | 260228 | 260728 | 261228 | 261728 | 262228 | 262728 | 263228 | 263728 | 264228 | 264728 | 265228 | 265728 | 266228 | 266728 | 267228 | 267728 | 268228 | 268728 | 269228 | 269728 | 270228 | 270728 | 271228 | 271728 | 272228 | 272728 | 273228 | 273728 | 274228 | 274728 | 275228 | 275728 | 276228 | 276728 | 277228 | 277728 | 278228 | 278728 | 279228 | 279728 | 280228 | 280728 | 281228 | 281728 | 282228 | 282728 | 283228 | 283728 | 284228 | 284728 | 285228 | 285728 | 286228 | 286728 | 287228 | 287728 | 288228 | 288728 | 289228 | 289728 | 290228 | 290728 | 291228 | 291728 | 292228 | 292728 | 293228 | 293728 | 294228 | 294728 | 295228 | 295728 | 296228 | 296728 | 297228 | 297728 | 298228 | 298728 | 299228 | 299728 | 300228 | 300728 | 301228 | 301728 | 302228 | 302728 | 303228 | 303728 | 304228 | 304728 | 305228 | 305728 | 306228 | 306728 | 307228 | 307728 | 308228 | 308728 | 309228 | 309728 | 310228 | 310728 | 311228 | 311728 | 312228 | 312728 | 313228 | 313728 | 314228 | 314728 | 315228 | 315728 | 316228 | 316728 | 317228 | 317728 | 318228 | 318728 | 319228 | 319728 | 320228 | 320728 | 321228 | 321728 | 322228 | 322728 | 323228 | 323728 | 324228 | 324728 | 325228 | 325728 | 326228 | 326728 | 327228 | 327728 | 328228 | 328728 | 329228 | 329728 | 330228 | 330728 | 331228 | 331728 | 332228 | 332728 | 333228 | 333728 | 334228 | 334728 | 335228 | 335728 | 336228 | 336728 | 337228 | 337728 | 338228 | 338728 | 339228 | 339728 | 340228 | 340728 | 341228 | 341728 | 342228 | 342728 | 343228 | 343728 | 344228 | 344728 | 345228 | 345728 | 346228 | 346728 | 347228 | 347728 | 348228 | 348728 | 349228 | 349728 | 350228 | 350728 | 351228 | 351728 | 352228 | 352728 | 353228 | 353728 | 354228 | 354728 | 355228 | 355728 | 356228 | 356728 | 357228 | 357728 | 358228 | 358728 | 359228 | 359728 | 360228 | 360728 | 361228 | 361728 | 362228 | 362728 | 363228 | 363728 | 364228 | 364728 | 365228 | 365728 | 366228 | 366728 | 367228 | 367728 | 368228 | 368728 | 369228 | 369728 | 370228 | 370728 | 371228 | 371728 | 372228 | 372728 | 373228 | 373728 | 374228 | 374728 | 375228 | 375728 | 376228 | 376728 | 377228 | 377728 | 378228 | 378728 | 379228 | 379728 | 380228 | 380728 | 381228 | 381728 | 382228 | 382728 | 383228 | 383728 | 384228 | 384728 | 385228 | 385728 | 386228 | 386728 | 387228 | 387728 | 388228 | 388728 | 389228 | 389728 | 390228 | 390728 | 391228 | 391728 | 392228 | 392728 | 393228 | 393728 | 394228 | 394728 | 395228 | 395728 | 396228 | 396728 | 397228 | 397728 | 398228 | 398728 | 399228 | 399728 | 400228 | 400728 | 401228 | 401728 | 402228 | 402728 | 403228 | 403728 | 404228 | 404728 | 405228 | 405728 | 406228 | 406728 | 407228 | 407728 | 408228 | 408728 | 409228 | 409728 | 410228 | 410728 | 411228 | 411728 | 412228 | 412728 | 413228 | 413728 | 414228 | 414728 | 415228 | 415728 | 416228 | 416728 | 417228 | 417728 | 418228 | 418728 | 419228 | 419728 | 420228 | 420728 | 421228 | 421728 | 422228 | 422728 | 423228 | 423728 | 424228 | 424728 | 425228 | 425728 | 426228 | 426728 | 427228 | 427728 | 428228 | 428728 | 429228 | 429728 | 430228 | 430728 | 431228 | 431728 | 432228 | 432728 | 433228 | 433728 | 434228 | 434728 | 435228 | 435728 | 436228 | 436728 | 437228 | 437728 | 438228 | 438728 | 439228 | 439728 | 440228 | 440728 | 441228 | 441728 | 442228 | 442728 | 443228 | 443728 | 444228 | 444728 | 445228 | 445728 | 446228 | 446728 | 447228 | 447728 | 448228 | 448728 | 449228 | 449728 | 450228 | 450728 | 451228 | 451728 | 452228 | 452728 | 453228 | 453728 | 454228 | 454728 | 455228 | 455728 | 456228 | 456728 | 457228 | 457728 | 458228 | 458728 | 459228 | 459728 | 460228 | 460728 | 461228 | 461728 | 462228 | 462728 | 463228 | 463728 | 464228 | 464728 | 465228 | 465728 | 466228 | 466728 | 467228 | 467728 | 468228 | 468728 | 469228 | 469728 | 470228 | 470728 | 471228 | 471728 | 472228 | 472728 | 473228 | 473728 | 474228 | 474728 | 475228 | 475728 | 476228 | 476728 | 477228 | 477728 | 478228 | 478728 | 479228 | 479728 | 480228 | 480728 | 481228 | 481728 | 482228 | 482728 | 483228 | 483728 | 484228 | 484728 | 485228 | 485728 | 486228 | 486728 | 487228 | 487728 | 488228 | 488728 | 489228 | 489728 | 490228 | 490728 | 491228 | 491728 | 492228 | 492728 | 493228 | 493728 | 494228 | 494728 | 495228 | 495728 | 496228 | 496728 | 497228 | 497728 | 498228 | 498728 | 499228 | 499728 | 500228 | 500728 | 501228 | 501728 | 502228 | 502728 | 503228 | 503728 | 504228 | 504728 | 505228 | 505728 | 506228 | 506728 | 507228 | 507728 | 508228 | 508728 | 509228 | 509728 | 510228 | 510728 | 511228 | 511728 | 512228 | 512728 | 513228 | 513728 | 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569728 | 570228 | 570728 | 571228 | 571728 | 572228 | 572728 | 573228 | 573728 | 574228 | 574728 | 575228 | 575728 | 576228 | 576728 | 577228 | 577728 | 578228 | 578728 | 579228 | 579728 | 580228 | 580728 | 581228 | 581728 | 582228 | 582728 | 583228 | 583728 | 584228 | 584728 | 585228 | 585728 | 586228 | 586728 | 587228 | 587728 | 588228 | 588728 | 589228 | 589728 | 590228 | 590728 | 591228 | 591728 | 592228 | 592728 | 593228 | 593728 | 594228 | 594728 | 595228 | 595728 | 596228 | 596728 | 597228 | 597728 | 598228 | 598728 | 599228 | 599728 | 600228 | 600728 | 601228 | 601728 | 602228 | 602728 | 603228 | 603728 | 604228 | 604728 | 605228 | 605728 | 606228 | 606728 | 607228 | 607728 | 608228 | 608728 | 609228 | 609728 | 610228 | 610728 | 611228 | 611728 | 612228 | 612728 | 613228 |

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
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7
8 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00501 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00502 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00503 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00504 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00505 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00506 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00507 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00508 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00509 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00510 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00511 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00512 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00513 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00514 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00515 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00516 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00517 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00518 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00519 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00520 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00521 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00522 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00523 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00524 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00525 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00526 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00527 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00528 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00529 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00530 | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | | | | | | 2 | | | | 2 | 3 | | 3 | 2 | | | | 3 | 2 | | 2 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | 3 | | | | | | |
| Pigmentation, Hemosiderin | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | | | | | | 4 | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 | | | | | | | | | 1 | | | | | | | | | | 1 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | X | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | |
| Tibia, Fracture | | | | | | 3 | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
250 mg/L | 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 | 5 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | | 7 |
| | 1 | 2 | 2 | 2 | 2 | 6 | 2 | 0 | 4 | 1 | 2 | 0 | 5 | 2 | 4 | 2 | 2 | 2 | 0 | 2 | 2 | |
| | 2 | 8 | 8 | 8 | 8 | 8 | 7 | 4 | 5 | 2 | 7 | 7 | 8 | 7 | 5 | 8 | 8 | 8 | 1 | 7 | 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 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | 1 | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | 2 | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic Active | | | | | | 1 | | 2 | 1 | | 1 | | | | | 1 | 1 | 1 | 1 | 1 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | 1 | | | | 1 | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | X | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | 1 | 1 | | | | 2 | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | 1 | | | | | | |
| Retina, Gliosis | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| 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: 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
Time Report Requested: 08:02:51
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
250 mg/L | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | | | | | | | | |
|--|-------------|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 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 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 0 | 4 | 1 | 2 | 0 | 5 | 2 | 4 | 2 | 2 | 2 | 0 | 2 | 2 | 0 | 8 | 2 | 2 | 2 | 7 | 7 | 9 | 8 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 8 |
| | 2 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 4 | 5 | 2 | 7 | 7 | 8 | 7 | 5 | 8 | 8 | 8 | 1 | 8 | 7 | 7 | 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Mineralization | | | | | | | | | | 1 | 1 | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | 1 | 1 | |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | | | | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | 2 | 1 | | | |
| Pelvis, Calculus Micro Observation Only | | | | | | | | | | | | | | | | | X | | | | | | | | | | X | | | | | | | | | | | | | |
| Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| 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
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|-----|-----|
| | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | | 0728 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | |
| | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| | 9 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | 1 | 1 | | 2 | | | 1 | | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | | | | 1 | | 27 | 1.2 | |
| Mesentery | | | | | | | | + | | + | | | | | | | | | | | | | | | | 4 | | |
| Fat, Necrosis | | | | | | | 2 | | | 1 | | | | | | 2 | | | | | | | | | | 4 | 1.5 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | 1 | | | | | 1 | | | 1 | | | | | 1 | | | 1 | | 1 | | | | | | 13 | 1.0 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Tongue | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 2 | | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | | 1 | 2 | 1 | | | | | 1 | 1 | | 1 | 2 | 1 | 1 | 42 | 1.5 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
| | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | | 0728 | |
| ANIMAL ID | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Cyst | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hyperplasia | | | | | | 3 | | | | | | | | | | | | | | | | | | 1 | 5 | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | 2 | 9 | | |
| Cyst | | | | 1 | | 1 | 2 | | 1 | | | | | 1 | 2 | | | | 1 | | | | | | 12 | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Cervix, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Cervix, Inflammation | | | | | | | | | | | | | | 3 | | | | 2 | | | | | | | 3 | | |
| Cervix, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Endometrium, Hyperplasia, Cystic | 1 | | | | 2 | | 1 | | | | | | | 2 | 1 | | | | | | | | 1 | | 9 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | 1 | 2 | 1 | 1 | | | | | 2 | | | | | | | 2 | | | 2 | 2 | | 2 | 19 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hyperplasia | | 4 | 3 | | | | | 3 | 2 | 2 | 4 | | | 4 | 2 | 3 | 2 | 3 | 1 | 2 | | 3 | 3 | 1 | 35 | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Lumbar, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|------|--|
| | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | | 0728 | |
| ANIMAL ID | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 13 2.4 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Pigmentation, Hemosiderin | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | | 1 | 2 | 2 | 43 1.2 | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Atrophy | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 48 3.0 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.3 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | | |
| Tibia, Fracture | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| NERVOUS 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: 96014 - 05
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FEMALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--------|
| | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | | 0728 | |
| ANIMAL ID | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 50 | |
| Brain Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 1.5 |
| Brain Necrosis | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 26 1.1 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 4 1.0 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 46 | 1.0 |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Nose Foreign Body | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 |
| Nose Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 | 5 1.2 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye Cornea, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 1.0 |
| Eye Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Eye Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | 3 | 2 2.0 |
| Eye Retina, Gliosis | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | 2 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
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| FISCHER 344-TACONIC RATS
FEMALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
| | 078 | 078 | 058 | 064 | 072 | 077 | 077 | 057 | 077 | 066 | 066 | 077 | 066 | 077 | 066 | 077 | 066 | 077 | 057 | 055 | 066 | 077 | 077 | 057 | | |
| ANIMAL ID | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | | |
| | 9 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infarct | | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 1.0 |
| Infiltration Cellular, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mineralization | 1 | 1 | 1 | | | | | 1 | | 1 | 1 | 1 | 1 | | | | 1 | 1 | | 1 | 1 | 1 | 1 | 21 1.0 | |
| Nephropathy | 2 | 2 | 1 | 1 | | 1 | 1 | | 2 | 1 | 1 | 1 | | 1 | 2 | 2 | 1 | 1 | | 2 | | 1 | 1 | 40 1.3 | |
| Pelvis, Calculus Micro Observation Only | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 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
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 Lab: BAT

| DAY ON TEST | FISCHER 344-TACONIC RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females (cont...) |
|-------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
| | 0673 | 0675 | 0678 | 0672 | 0674 | 0665 | 0656 | 0643 | 0634 | 0636 | 0673 | 0664 | 0676 | 0658 | 0665 | 0677 | 0666 | 0666 | 0664 | 0662 | 0663 | 0664 | 0677 | 0666 | | |
| 500 mg/L | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | X | | | | | | | | | | X | | | | | | | X | | | X | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | | | | | | | X | | | | X | X | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | X | | | | X | | X | | | X | | | X | X | | X | | X |
| Fatty Change | | | | | | | | | | | | | | | | | 2 | | | | | 1 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | 1 | | | | | | | | | 1 | | 1 | 1 |
| Hepatodiaphragmatic Nodule | | | | | X | X | | | | | | | | | | | | | | | | | X | |
| Inflammation, Chronic Active | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | | | | | | | X | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 1 | 1 | 1 | | | | 1 | 1 | | | 1 | 1 | | 1 | 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
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 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | 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 |
| FISCHER 344-TACONIC RATS | FEMALE | 6 | 6 | 6 | 7 | 4 | 6 | 5 | 6 | 4 | 3 | 6 | 6 | 7 | 6 | 5 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | | | 6 |
| 500 mg/L | | 7 | 5 | 2 | 2 | 9 | 5 | 9 | 2 | 2 | 3 | 3 | 4 | 2 | 9 | 8 | 5 | 2 | 5 | 5 | 4 | 2 | 3 | 4 | 2 | 6 | | |
| | | 3 | 6 | 8 | 7 | 4 | 6 | 4 | 3 | 9 | 4 | 1 | 5 | 8 | 8 | 8 | 6 | 8 | 0 | 6 | 3 | 0 | 1 | 1 | 7 | 3 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | | |

Zona Fasciculata, Hyperplasia

Adrenal Medulla
Hyperplasia

Islets, Pancreatic

Parathyroid Gland

Pituitary Gland

Pars Distalis, Angiectasis

Pars Distalis, Cyst

Pars Distalis, Hyperplasia

Pars Distalis, Vacuolization Cytoplasmic

Thyroid Gland

Atrophy

C-cell, Hyperplasia

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

Hyperplasia

Ovary

Atrophy

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

+ .. Tissue examined microscopically

X .. Lesion present

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M .. Missing tissue

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FEMALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|
| | 0673 | 0675 | 0678 | 0672 | 0674 | 0676 | 0675 | 0676 | 0674 | 0673 | 0672 | 0673 | 0674 | 0675 | 0676 | 0678 | 0676 | 0675 | 0676 | 0674 | 0672 | 0673 | 0674 | 0675 | 0676 | | | 0677 |
| | 0 | 0 | 0 | 0 | 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 | 7 | 4 | 6 | 5 | 6 | 4 | 3 | 6 | 6 | 7 | 6 | 5 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 |
| | 7 | 5 | 2 | 2 | 9 | 5 | 9 | 2 | 2 | 3 | 3 | 4 | 2 | 9 | 8 | 5 | 2 | 5 | 5 | 4 | 2 | 3 | 4 | 2 | 6 | 6 | 6 | 3 |
| | 3 | 6 | 8 | 7 | 4 | 6 | 4 | 3 | 9 | 4 | 1 | 5 | 8 | 8 | 8 | 6 | 8 | 0 | 6 | 3 | 0 | 1 | 1 | 7 | 3 | 6 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Cyst | 1 | | | 2 | 1 | | | 1 | | | | 1 | | | | | | | | | | | | | | | | 1 | 1 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cervix, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Adenomatous | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | 1 | | 1 | | | | 1 | | | 1 | 3 | | | | | 2 | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | 1 | | | | 1 | 2 | | 1 | | 1 | 2 | 2 | | 1 | 2 | 2 | | | 2 | 3 | 2 | 2 | 1 | | | 3 | | | | |
| Hyperplasia | 1 | | 1 | 2 | 2 | 3 | 4 | | 2 | | 3 | 3 | 3 | 3 | | 2 | | 3 | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | 1 | | | | 2 | 2 | 2 | | 1 | | 1 | | 3 | | | | 1 | | | | | 2 | 2 | 2 | 3 | | | | | |
| Pigmentation, Hemosiderin | 2 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|
| | 0673 | 0675 | 0672 | 0678 | 0674 | 0679 | 0675 | 0679 | 0672 | 0673 | 0674 | 0671 | 0675 | 0678 | 0678 | 0676 | 0678 | 0670 | 0676 | 0673 | | | 0670 | 0671 | 0671 | 0677 | 0676 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 7 | 5 | 2 | 2 | 9 | 5 | 9 | 2 | 2 | 3 | 3 | 4 | 2 | 9 | 8 | 5 | 2 | 5 | 5 | 4 | 2 | 3 | 4 | 2 | 6 | 6 | 6 |
| | 3 | 6 | 8 | 7 | 4 | 6 | 4 | 3 | 9 | 4 | 1 | 5 | 8 | 8 | 8 | 6 | 8 | 0 | 6 | 3 | 0 | 1 | 1 | 7 | 6 | 3 | 3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Atrophy | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin
Sebaceous Gland, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone
Hyperplasia
Osteopetrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung
Inflammation, Chronic Active
Alveolar Epithelium, Hyperplasia
Alveolus, Hyperplasia
Alveolus, Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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: 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
Time Report Requested: 08:02:51
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

| | | 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 | |
| | | 6 | 6 | 6 | 7 | 4 | 6 | 5 | 6 | 4 | 3 | 6 | 6 | 7 | 6 | 5 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | |
| FISCHER 344-TACONIC RATS
FEMALE
500 mg/L | ANIMAL ID | 7 | 5 | 2 | 2 | 9 | 5 | 9 | 2 | 2 | 3 | 3 | 4 | 2 | 9 | 8 | 5 | 2 | 5 | 5 | 4 | 2 | 3 | 4 | 2 | 6 |
| | ANIMAL ID | 3 | 6 | 8 | 7 | 4 | 6 | 4 | 3 | 9 | 4 | 1 | 5 | 8 | 8 | 8 | 6 | 8 | 0 | 6 | 3 | 0 | 1 | 1 | 7 | 3 |
| | 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 |
| | ANIMAL ID | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

Foreign Body
Inflammation
Respiratory Epithelium, Hyperplasia

1
1
2

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye
Fibrosis
Anterior Chamber, Inflammation
Lens, Cataract
Retina, Degeneration
Retina, Gliosis

+
3
2
1

Harderian Gland
Inflammation

+
4

URINARY SYSTEM

Kidney
Mineralization
Nephropathy
Cortex, Cyst
Pelvis, Calculus Micro Observation Only
Pelvis, Inflammation
Renal Tubule, Hyperplasia, Atypical

+
1 1 1 2 1 1 2 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1
1
X X
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
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| FISCHER 344-TACONIC RATS
FEMALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0727 | 0601 | 0507 | 0701 | 0702 | 0708 | 0508 | 0603 | 0704 | 0603 | 0508 | 0603 | 0506 | 0601 | 0505 | 0606 | 0504 | 0609 | 0504 | 0306 | | 0408 | 0605 | 0501 | 0600 |
| ANIMAL ID | 00639 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| | 9 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Mesentery
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 1.0 |
| Pancreas
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 11 | 1.2 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Stomach, Forestomach
Inflammation
Ulcer
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 | 1.5 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Tongue | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Heart
Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 39 | 1.2 |
| | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Adrenal Cortex
Degeneration, Cystic
Hypertrophy
Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.0 |

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 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
| | 0727 | 0601 | 0507 | 0701 | 0702 | 0708 | 0508 | 0603 | 0704 | 0603 | 0508 | 0603 | 0506 | 0601 | 0505 | 0606 | 0404 | 0505 | 0306 | 0408 | | 0605 | 0506 | 0609 | 0406 | 0501 |
| ANIMAL ID | 00639 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|---|----|-------|
| Zona Fasciculata, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 | | | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 5 1.2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Pituitary Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Pars Distalis, Hyperplasia | 3 | 2 | 2 | | | | 1 | | 4 | | 2 | 4 | 2 | 2 | | | | 1 | | 1 | 2 | 1 | | 2 | | | 22 | 2.0 |
| Pars Distalis, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | |
| C-cell, Hyperplasia | 2 | | 3 | | | 2 | 4 | 2 | 2 | | 1 | | | 2 | | | | | | 1 | 2 | | | | 1 | | 26 | 1.9 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Clitoral Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 3 2.7 |
| Ovary Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 6 2.8 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|
| | 07
27 | 06
01 | 05
07 | 07
15 | 07
22 | 07
28 | 05
08 | 06
13 | 07
20 | 06
27 | 05
03 | 06
10 | 06
17 | 05
24 | 06
31 | 06
06 | 05
13 | 06
20 | 04
27 | 05
03 | | 06
10 | 06
17 | 05
24 | 06
31 | |
| ANIMAL ID | 00639 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 1.3 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cervix, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Endometrium, Hyperplasia, Adenomatous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 12 | 1.6 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 32 | 1.7 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 40 | 2.7 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 29 | 2.1 |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | 41 | 1.1 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
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| FISCHER 344-TACONIC RATS
FEMALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 07
27 | 06
01 | 05
07 | 04
15 | 03
22 | 02
28 | 01
03 | 00
05 | 00
06 | 00
07 | 00
08 | 00
09 | 00
10 | 00
11 | 00
12 | 00
13 | 00
14 | 00
15 | 00
16 | 00
17 | | 00
18 | 00
19 |
| ANIMAL ID | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 | 00639 |

Atrophy 3 3 2 3 3 3 3 3 3 3 3 4 3 3 3 3 3 4 3 2 3 3 3 3 44 3.0

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Mammary Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 1.5 |
| Skin
Sebaceous Gland, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Bone
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| Osteopetrosis | | | | | 3 | | | | | | | | | | 2 | 3 | 1 | | 3 | | | | | 8 | 2.3 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Lung
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 26 | 1.0 |
| Alveolar Epithelium, Hyperplasia | 1 | | | | | 1 | | | | 1 | | | | | 1 | | | | 1 | | 1 | | | 8 | 1.1 |
| Alveolus, Hyperplasia | | | | | | 1 | | | | | | | | | 1 | | | | | | | | | 1 | 1.0 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 43 | 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|--------|-------|
| | 0727 | 0601 | 0507 | 0701 | 0702 | 0708 | 0508 | 0603 | 0704 | 0603 | 0508 | 0603 | 0506 | 0601 | 0505 | 0606 | 0404 | 0503 | 0406 | 0308 | | 0409 | 0605 | 0501 | 0600 | 0709 | |
| ANIMAL ID | 00639 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | | |
| Foreign Body | | | X | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation | | | 2 | | 2 | | | 1 | | 1 | | 1 | | | | | | | | | | | | | | 1 | 9 1.2 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lens, Cataract | | 3 | | 1 | | | | | 1 | | | | | 4 | 3 | | | | | | | | | | | | 6 2.3 |
| Retina, Degeneration | | 4 | | 1 | | | | | | | | | | 4 | 3 | | | | | | | | | | | | 5 2.6 |
| Retina, Gliosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mineralization | | | 1 | | 1 | 1 | 1 | 1 | | 1 | | | 1 | 1 | | 1 | 1 | | 1 | | | 1 | 1 | | | 20 1.0 | |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | | 1 | | 1 | | 44 1.1 | |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pelvis, Calculus Micro Observation Only | | | | | | | | X | | | | | | | | | | | | | | | | X | | 4 | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 | |
| Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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(cont...) | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
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2
6 | 0
0
7
2
7 | 0
0
7
2
8 | 0
0
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9 | 0
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3
0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | X | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | 3 | 3 | | | | | | | |
| Basophilic Focus | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | | | | | X | | | | X | | | | | | | | | | | | | | | | | X |
| Eosinophilic Focus | | | X | | X | | | | X | X | | X | | | | | | | | X | X | | | | | |
| Fatty Change | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | 1 | 1 | | | 1 | | | | | 1 | | | | | | | 1 | | 1 | | | | | | |
| Hepatodiaphragmatic Nodule | | | X | | X | | | X | | | | | | | | | X | | | | | | | | | X |
| Inflammation, Chronic Active | 1 | | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | X | | | | | | | | | X |
| Necrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | 1 | | 1 | 1 | | | | | 1 | | 1 | 2 | 1 | | 1 | 2 | 1 | 1 | 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
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(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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8 | 0
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7
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9 | 0
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3
0 | |

Serosa, Fibrosis

1

Mesentery
Fat, Necrosis

+ +
1 1

Oral Mucosa

+

Pancreas
Atrophy

+
1 1 2 1

Salivary Glands

+ +

Stomach, Forestomach
Epithelium, Dysplasia

+
1

Stomach, Glandular
Erosion

+ +

Tongue

+ +

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart
Cardiomyopathy
Epicardium, Inflammation

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

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

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(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
| | 0
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9 | 0
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|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|
| Cyst | 2 1 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| Uterus | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervix, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervix, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 2 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | 1 2 1 2 1 1 2 3 2 4 2 2 1 1 2 1 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 3 3 3 3 2 3 3 2 3 2 3 2 2 2 4 4 4 2 1 4 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 3 2 3 2 3 1 2 2 2 2 1 2 3 2 2 2 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | 2 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: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | | | | 3 | 3 | 4 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | 2 | | | | | | | 1 | | | 1 | | | 2 | | |
| Skin Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epidermis, Hyperkeratosis | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia, Squamous | | | | | 3 | | | | | | | | | 1 | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Osteopetrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Vertebra, Fracture | | | | | | | | | | | 3 | | | | | | 1 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | X |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar Epithelium, Hyperplasia | | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | | 1 | | 1 | 2 | 1 | 1 | 3 | | 1 | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Bronchiole, 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: 96014 - 05
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 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

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 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
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| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | 1 | | | | | 2 | | | | | | 3 | 2 | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cornea, Inflammation | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | 2 | | | | | | 3 | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | 4 | | | | | | 4 | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 | 1 | | | 1 | 1 | | | 1 | 1 | | | 1 | 1 | 1 | 1 | | | 1 | 1 | | | | 1 | |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X .. Lesion present
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 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------|
| | 0628 | 0594 | 0635 | 0663 | 0666 | 0772 | 0751 | 0663 | 0554 | 0666 | 0666 | 0567 | 0757 | 0551 | 0663 | 0488 | 0559 | 0663 | 0559 | 0666 | | 0666 | 0666 | 0551 |
| ANIMAL ID | 00736 | 00773 | 00778 | 00773 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 4 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 |
| Basophilic Focus | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | | | X | X | X | X | X | X | X | 46 | | |
| Clear Cell Focus | X | X | X | | | | | X | X | | | | | | | | | | | | | | | | 8 | | |
| Eosinophilic Focus | X | X | | X | | X | | X | X | | X | X | X | | | X | X | X | X | | | | | | 22 | | |
| Fatty Change | | | | | | | 3 | | | | 1 | | | | | | 1 | | | | | | | | 5 | 1.4 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | 1 | | | | 1 | | | 2 | 9 | 1.1 | |
| Hepatodiaphragmatic Nodule | | | | | X | | | | X | X | | | X | X | | X | | | X | X | X | | X | 15 | | | |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | 1 | 35 | 1.1 | | |
| Mixed Cell Focus | | | | | | | | | | X | | | | | | | | | | | | | | | 3 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 3 | | | 2 | 2.5 | |
| Bile Duct, Hyperplasia | | | 1 | | | 1 | 2 | 1 | | 1 | | | 1 | | | | 2 | | 1 | | | 2 | | | 22 | 1.3 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
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FEMALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-----------------------|------------|--|
| | 0628 | 0594 | 0635 | 0623 | 0652 | 0721 | 0561 | 0623 | 0594 | 0656 | 0661 | 0661 | 0567 | 0752 | 0551 | 0623 | 0488 | 0593 | 0651 | 0559 | | 0664 | 0664 | 0661 | 0565 | |
| ANIMAL ID | 00736 | 00773 | 00773 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Mesentery
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2
2 1.0 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
14 1.1 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach
Epithelium, Dysplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 1.0 | | |
| Stomach, Glandular
Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2
1 2.0 | | |
| Tongue | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Heart
Cardiomyopathy
Epicardium, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
35 1.1
1 2.0 | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
| | 0628 | 0594 | 0635 | 0623 | 0652 | 0721 | 0561 | 0623 | 0544 | 0666 | 0566 | 0633 | 0582 | 0757 | 0551 | 0623 | 0488 | 0593 | 0661 | 0559 | 0664 | 0630 | 0664 | 0619 | | |
| ANIMAL ID | 00736 | 00773 | 00778 | 00773 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | | |
| Degeneration, Cystic Hypertrophy | | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | |
| Zona Fasciculata, Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Pituitary Gland Pars Distalis, Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | 1 | 1 | | | 2 | | | | | 1 | 2 | 1 | | 2 | 17 | | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Follicular Cell, Hyperplasia | | | | 4 | 4 | 1 | 1 | 1 | 1 | 4 | 1 | | | 2 | 1 | | | 1 | | 1 | 2 | | | 26 | | |
| | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 48 |
| Ovary Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | 2 | | | | | | | | | | 1 | | | | | | | | 3 | | | 3 |

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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|--|
| | 0628 | 0594 | 0635 | 0623 | 0665 | 0722 | 0561 | 0623 | 0594 | 0665 | 0623 | 0561 | 0623 | 0594 | 0665 | 0623 | 0561 | 0623 | 0594 | 0665 | 0623 | 0561 | 0623 | 0594 | | | |
| ANIMAL ID | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750 | 00751 | 00752 | 00753 | 00754 | 00755 | 00756 | 00757 | 00758 | 00759 | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 6 1.3 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cervix, Inflammation | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Cervix, Metaplasia, Squamous | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | 2 | | | | | | 3 | | | | 1 | | | 1 | 1 | | 9 1.4 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | 2 | 1 | | 2 | 2 | 1 | | 2 | 2 | | 2 | | 2 | 2 | 1 | 3 | 1 | | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 39 1.7 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Hyperplasia | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 1 | | 3 | 2 | | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 43 2.7 | |
| Infiltration Cellular, Histiocyte | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Necrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | 2 | 2 | 2 | 2 | | 1 | | 2 | | | | | 2 | 1 | | | 3 | | | 2 | 2 | 3 | 3 | | 3 | 31 2.1 | |
| Pigmentation, Hemosiderin | 1 | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 39 1.1 | | |
| Thrombosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 | |

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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|------|----|-----|-----|
| | 0628 | 0594 | 0635 | 0623 | 0656 | 0721 | 0561 | 0623 | 0544 | 0666 | 0661 | 0577 | 0752 | 0561 | 0623 | 0488 | 0593 | 0661 | 0554 | 0660 | | 0666 | 0661 | 0541 | 0659 | | | |
| ANIMAL ID | 00736 | 00773 | 00778 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | | | | |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | 48 | 45 | 3.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 10 | 1.2 |
| Skin Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.0 |
| Epidermis, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Epidermis, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Osteopetrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 5 | 2.2 |
| Vertebra, Fracture | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 28 | 1.1 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 1.6 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | 43 | 1.0 |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

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|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------|--|
| | 0
6
2
8 | 0
5
9
4 | 0
6
3
5 | 0
6
2
3 | 0
6
5
6 | 0
7
2
1 | 0
5
6
1 | 0
6
2
3 | 0
5
9
4 | 0
6
3
6 | 0
6
5
1 | 0
6
3
7 | 0
5
8
7 | 0
7
2
1 | 0
5
5
3 | 0
6
2
8 | 0
4
8
6 | 0
5
9
3 | 0
6
1
9 | 0
5
9
4 | 0
6
2
0 | 0
6
3
6 | 0
6
4
1 | 0
5
1
9 | | | |
| ANIMAL ID | 0
0
7
3
6 | 0
0
7
3
7 | 0
0
7
3
8 | 0
0
7
3
9 | 0
0
7
4
0 | 0
0
7
4
1 | 0
0
7
4
2 | 0
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7
4
3 | 0
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7
4
4 | 0
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7
4
5 | 0
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7
4
9 | 0
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7
5
0 | 0
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7
5
1 | 0
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7
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2 | 0
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7
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3 | 0
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7
5
4 | 0
0
7
5
5 | 0
0
7
5
9 | 0
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7
6
0 | 0
0
7
6
1 | 0
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7
6
2 | 0
0
7
6
3 | 0
0
7
6
4 | 0
0
7
6
5 | 0
0
7
6
6 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.0 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3 2.3 | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 4 3 4.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 27 1.0 | |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | | 46 1.4 | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1 2.0 | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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