

TDMS No. 88148 - 06
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008

Time Report Requested: 07:37:02

First Dose M/F: 01/29/03 / 01/30/03

Lab: BAT

F1_R8

C Number: C88148C
Lock Date: 09/22/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.0.0

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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	0	0	0
	6	7	7	7	6	4	2	4	7	7	5	7	7	7	7	3	7	7	5	7	7	7	7	5	7	
	3	2	2	2	5	9	7	9	2	2	6	2	2	2	2	9	2	2	9	2	2	2	2	1	2	
	9	7	7	7	0	6	4	6	7	7	7	7	7	7	7	8	7	7	2	7	7	7	7	3	7	
SPRAGUE-DAWLEY 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	0	0	
0 MG/KG	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	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	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

males (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan										X					X					X	X			X	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																									1
Basophilic Focus					X																				
Cholangiofibrosis																									
Clear Cell Focus				X	X	X				X	X		X	X	X	X		X	X		X	X	X	X	X
Degeneration, Cystic																									1
Eosinophilic Focus			X																						
Fatty Change, Focal																									1
Fatty Change, Diffuse																									1
Hematopoietic Cell Proliferation	2																								
						1	1	2																	

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DAY ON TEST	0																								
	6	7	7	7	6	4	2	4	7	7	5	7	7	7	7	3	7	7	5	7	7	7	7	5	7
SPRAGUE-DAWLEY RATS MALE 0 MG/KG ANIMAL ID	0																								
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
Inflammation, Chronic Active	1	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					X						X				
Necrosis																									
Pigmentation	1																								
Bile Duct, Fibrosis										1			1							1			1		1
Bile Duct, Hyperplasia					1				2	1	1		1	1		1		1	1	2	2	1	2	2	
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gingival, Hyperplasia, Squamous																						1			
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																			2						
Fibrosis																						3			
Inflammation																						3			
Acinus, Hyperplasia					4										4										2 3
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																						3			
Inflammation																									
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	2																								
Mineralization																									
Epithelium, Hyperplasia	3										1									1					
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																							1		
Mineralization		2																							

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	6	7	7	7	6	4	2	4	7	7	5	7	7	7	7	3	7	7	5	7	7	7	7	5	7
	3	2	2	2	5	9	7	9	2	2	6	2	2	2	2	9	2	2	9	2	2	2	2	1	2
	9	7	7	7	0	6	4	6	7	7	7	7	7	7	7	8	7	7	2	7	7	7	7	3	7
SPRAGUE-DAWLEY RATS MALE 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	0	0	0
	0	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	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
0 MG/KG																									

males (cont...)

Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peridontal Tissue, Inflammation		2	1	1																				2

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation		2	2					2		1		3	1		2		1		1		4	1		1
Mineralization					2		1																	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	1	2	1	1		3	1	2	1	2	1	2	2	1	2	1	2	1	1	1	1	2	1	1
Inflammation		2																						
Mineralization			1		3		1																	

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																		1						
Degeneration							1				1								1					
Hypertrophy			2	1		4			1	2	2	2	2	1		2	1				1	1	2	1
Vacuolization Cytoplasmic		2		2				1	2	1			1	1		1			1		1			1
Zona Fasciculata, Hyperplasia			3	1			2								1		1	1			1			
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	1	4										2										1		1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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DAY ON TEST	0																									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	
6	7	7	7	6	4	2	4	7	7	5	7	7	7	7	3	7	7	5	7	7	7	7	5	7	7	
3	2	2	2	5	9	7	9	2	2	6	2	2	2	2	9	2	2	9	2	2	2	2	1	2	2	
9	7	7	7	0	6	4	6	7	7	7	7	7	7	7	8	7	7	2	7	7	7	7	3	7	7	
SPRAGUE-DAWLEY RATS MALE ANIMAL ID 0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	

Hyperplasia																									
Parathyroid Gland Hyperplasia	+	+	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	M	+	+	
	3				2		2													2					
Pituitary Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia			2							2	1	1	2		2		2			2	1			1	
Rathke's Cleft, Hyperplasia	1																								
Thyroid Gland C-cell, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Follicle, Cyst										1														2	
Follicular Cell, Hypertrophy												1													

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Coagulating Gland Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	3																							
Epididymis Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2	2											1											
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

SPRAGUE-DAWLEY RATS MALE 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	0	0	0
	0	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	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

Ectasia Hyperplasia, Squamous Inflammation																									
Prostate Inflammation Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	3	1						1								2								1	
	1			3			1						1	2	1							2			
Seminal Vesicle Mineralization	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes Inflammation Germinal Epithelium, Degeneration Germinal Epithelium, Mineralization	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	3	2													2	3			3		1	4			
																							1		

HEMATOPOIETIC SYSTEM

Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2	1			2		4					4											1	1
Lymph Node Deep Cervical, Hematopoietic Cell Proliferation Mediastinal, Atrophy	+	M	M	+	+	+	+	+	+	+	M	+	+	+	M	+	+	M	M	+	+	+	+	M
												3												
						4				1														
Lymph Node, Mandibular Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
							2																	2

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	0 6 3 9	0 7 2 7	0 7 2 7	0 7 2 7	0 6 5 0	0 4 9 6	0 2 7 4	0 4 9 6	0 7 2 7	0 7 2 7	0 5 2 7	0 7 2 7	0 7 2 7	0 3 2 7	0 7 2 7	0 5 2 7	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 5 2 7	0 7 2 7		
SPRAGUE-DAWLEY 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	0	0	
0 MG/KG	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	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	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Hyperplasia, Lymphoid Pigmentation																											
Lymph Node, Mesenteric Pigmentation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Spleen Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hematopoietic Cell Proliferation Pigmentation		2	1	1	1	1	3		1	1	4	1	1	1	2		1	1	1	2			1	1			
Thrombosis	2				1	1		2	1	1		1	1	1	1	1			1	1	1			1	2		
Lymphoid Follicle, Atrophy								3			4																
Thymus Atrophy	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Thymocyte, Hyperplasia	2	4		4	3	4		4	3		4	2	3	2	2	3	2	2	2		3	3	3	4	4		

INTEGUMENTARY SYSTEM

Mammary Gland Mineralization	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin Cyst Epithelial Inclusion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																									2	
Inflammation																									3	

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	3	2	2	2	5	9	7	9	2	2	6	2	2	2	2	9	2	2	9	2	2	2	2	1	2	2	2
	9	7	7	7	0	6	4	6	7	7	7	7	7	7	7	8	7	7	2	7	7	7	7	3	7	7	7
SPRAGUE-DAWLEY 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	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	0
0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	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	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2

males (cont...)

Foreign Body Inflammation																													
													X	X															
													3	2	2														
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Anterior Chamber, Inflammation																													
Cornea, Hyperplasia, Squamous																													
Cornea, Inflammation																													
Retina, Degeneration																													
Harderian Gland Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Zymbal's Gland																													

URINARY SYSTEM

Kidney Mineralization				1	2	1	2			1												1	1	1					
Nephropathy	3	4	3	2	2	4	2	4	1	2	2	4	2	2	3	1	4	2	4	2	4	3	1	2	2				
Cortex, Cyst										3				3															
Pelvis, Inflammation	1																												
Pelvis, Transitional Epithelium, Hyperplasia																													
Transitional Epithelium, Hyperplasia																													

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 M .. Missing tissue
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 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	SPRAGUE-DAWLEY RATS MALE																									males (cont...)	
	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	
6	7	7	7	6	4	2	4	7	7	5	7	7	7	7	3	7	7	5	7	7	7	7	5	7	7	7	
3	2	2	2	5	9	7	9	2	2	6	2	2	2	2	9	2	2	9	2	2	2	2	1	2	2	2	
9	7	7	7	0	6	4	6	7	7	7	7	7	7	7	8	7	7	2	7	7	7	7	3	7	7	7	
0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	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	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		
Ureter	+	+	+	+	+	M	+	M	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+		
Urethra	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Urinary Bladder Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

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 Page 10

TDMS No. 88148 - 06
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0																				* TOTALS					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0			
	5	7	7	6	7	7	7	7	7	6	6	6	7	6	7	7	7	6	5	7	7	7	4	7		
	7	2	2	2	2	2	2	2	0	9	7	4	2	5	2	2	1	1	1	4	2	0	2	2	2	
	5	7	7	7	7	7	7	7	6	4	1	0	7	0	7	7	7	6	7	9	7	0	7	0	7	
SPRAGUE-DAWLEY 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	0	0	
0 MG/KG	0	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	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Inflammation, Chronic Active	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	40	1.0
Mixed Cell Focus				X															X				X		7	
Necrosis										1															1	1.0
Pigmentation																									1	1.0
Bile Duct, Fibrosis				3	1	1								1							1				10	1.2
Bile Duct, Hyperplasia	1		1	3	2	2	2		1		1	1	1	1	2	1	1		1		2	2	1	1	34	1.4
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Gingival, Hyperplasia, Squamous																					1				2	1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy											1		1			1									4	1.3
Fibrosis																									1	3.0
Inflammation																									1	3.0
Acinus, Hyperplasia			2		2				2						4										8	2.9
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																									1	3.0
Inflammation																						1			1	1.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation				1						1									2				1		5	1.4
Mineralization																			3				2		2	2.5
Epithelium, Hyperplasia						1				1			1						2				1		8	1.4
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																					1				2	1.0
Mineralization																		3					2		3	2.3

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TDMS No. 88148 - 06
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 Route: GAVAGE
 Species/Strain: RATS/SD

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3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

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First Dose M/F: 01/29/03 / 01/30/03

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	0	0	0	0	
5	7	7	6	7	7	7	7	7	6	6	6	7	6	7	7	7	7	6	5	7	7	7	4	7				
7	2	2	2	2	2	2	2	0	9	7	4	2	5	2	2	1	1	1	4	2	0	2	2	2				
5	7	7	7	7	7	7	7	7	6	4	1	0	7	0	7	7	7	6	7	9	7	0	7	0	7			
SPRAGUE-DAWLEY 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	0	0	0	0	
0 MG/KG	0	0	0	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	0	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5		
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		* TOTALS	

Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Peridental Tissue, Inflammation			1			1		1	2						1					1		2					11 1.4

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation	1						2		1				1				2	1				1	4	1			21 1.7
Mineralization															1	3							4				5 2.2
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	2	2	1	1	2	1	2	1		1	2	1	2	2	1	1	1	3	2		1	2	1	3	1		47 1.5
Inflammation																											1 2.0
Mineralization																2								2			5 1.8

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																											1 1.0
Degeneration			1																								4 1.0
Hypertrophy			2		1		1	1	1		2	3	2	2	1	1				2	2	1	4	1			33 1.7
Vacuolization Cytoplasmic	1	1		1				1	2			1							1		1						20 1.2
Zona Fasciculata, Hyperplasia	2		2						2		2				1	2					1						14 1.6
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia							1			1			2				1				3						10 1.7
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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DAY ON TEST	ANIMAL ID																								* TOTALS
	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	7	7	6	7	7	7	7	7	6	6	6	7	6	7	7	7	7	6	5	7	7	7	4	7	
7	2	2	2	2	2	2	2	0	9	7	4	2	5	2	2	1	1	1	4	2	0	2	2	2	
5	7	7	7	7	7	7	7	6	4	1	0	7	0	7	7	7	6	7	9	7	0	7	0	7	

SPRAGUE-DAWLEY RATS MALE 0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	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	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		
Ectasia					2																					1 2.0
Hyperplasia, Squamous Inflammation	2						2			2						1										2 2.0 5 2.0
Prostate Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	13 1.5
Epithelium, Hyperplasia							2			1		3							2		3					12 1.8
Seminal Vesicle Mineralization	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 1.0
Testes Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0
Germinal Epithelium, Degeneration					1	1	1				4			4			3		1				2			15 2.3
Germinal Epithelium, Mineralization														2									1			3 1.3

HEMATOPOIETIC SYSTEM

Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	12 2.2
Lymph Node Deep Cervical, Hematopoietic Cell Proliferation	+	M	+	+	M	M	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	38	1 3.0
Mediastinal, Atrophy																										2 2.5
Lymph Node, Mandibular Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	49	5 2.0

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TDMS No. 88148 - 06
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 Route: GAVAGE
 Species/Strain: RATS/SD

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 CAS Number: 14047-09-7

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 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	0	0	0	0	
	5	7	7	6	7	7	7	7	7	6	6	6	7	6	7	7	7	7	6	5	7	7	7	4	7			
	7	2	2	2	2	2	2	2	0	9	7	4	2	5	2	2	1	1	1	4	2	0	2	2	2			
	5	7	7	7	7	7	7	7	6	4	1	0	7	0	7	7	7	6	7	9	7	0	7	0	7			
SPRAGUE-DAWLEY 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	0	0	0		
0 MG/KG	0	0	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	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5		
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		* TOTALS	

Hyperplasia, Lymphoid Pigmentation																												2 2.0
																												1 1.0
Lymph Node, Mesenteric Pigmentation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
																												1 1.0
Spleen Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
Hematopoietic Cell Proliferation	2	2	1	1	1	2	1	2	1				2	2	1	2	1	1									38 1.5	
Pigmentation	1		1	2	2	1	1	1				3	2	2	1	1	1	1	2	3							38 1.4	
Thrombosis																											1 4.0	
Lymphoid Follicle, Atrophy																											5 2.6	
Thymus Atrophy	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Thymocyte, Hyperplasia	3	3	3	3	3	3	3		4	4	4	4	2	2	3	3	3	4	3	4	3	4	2	3	2		45 3.1	
																											1 3.0	

INTEGUMENTARY SYSTEM

Mammary Gland Mineralization	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
																												2
Skin Cyst Epithelial Inclusion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50
Hyperplasia																												2
Inflammation																												2 2.0
																												1 3.0

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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	0	0
		5	7	7	6	7	7	7	7	7	6	6	6	7	6	7	7	7	7	6	5	7	7	7	4	7
		7	2	2	2	2	2	2	2	0	9	7	4	2	5	2	2	1	1	1	4	2	0	2	2	2
		5	7	7	7	7	7	7	7	6	4	1	0	7	0	7	7	7	6	7	9	7	0	7	0	7
SPRAGUE-DAWLEY 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	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	0	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/KG	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
		* TOTALS																								

MUSCULOSKELETAL SYSTEM

Bone + 50

NERVOUS SYSTEM

Brain + 50
 Hemorrhage 1 2.0

RESPIRATORY SYSTEM

Lung + 50
 Congestion 1 3.0
 Foreign Body X 1
 Hemorrhage 1 2.0
 Inflammation, Granulomatous 1 2 1 1 7 1.1
 Inflammation, Chronic Active 2 3 1 1 6 2.2
 Mineralization 3 1 3.0
 Necrosis 1 2.0
 Pigmentation 3 1.0
 Alveolar Epithelium, Hyperplasia 4 2 2.5
 Alveolar Epithelium, Metaplasia, Bronchiolar 1 1.0
 Alveolus, Infiltration Cellular, Histiocyte 1 1 1 1 1 1 1 1 2 1 1 1 23 1.3
 Smooth Muscle, Hyperplasia, Focal 1 2.0
 Nose + 50

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 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008

Time Report Requested: 07:37:02

First Dose M/F: 01/29/03 / 01/30/03

Lab: BAT

DAY ON TEST	0 0																								* TOTALS
	5 7 7 6 7 7 7 7 7 6 6 6 7 6 7 7 7 7 6 5 7 7 7 4 7 7 2 2 2 2 2 2 2 0 9 7 4 2 5 2 2 1 1 1 4 2 0 2 2 2 5 7 7 7 7 7 7 7 6 4 1 0 7 0 7 7 7 6 7 9 7 0 7 0 7																								
SPRAGUE-DAWLEY RATS MALE	0 0																								
0 MG/KG	0 0																								
ANIMAL ID	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 5																								
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0																								

Foreign Body Inflammation																									2
	2 1																								10 1.5
Trachea	+ +																								50

SPECIAL SENSES SYSTEM

Eye	+ + + A + + + + A + + + + + + + + + + + + + + + + + +																								48
Anterior Chamber, Inflammation																									1 1.0
Cornea, Hyperplasia, Squamous	2																								1 2.0
Cornea, Inflammation	4 1 2																								3 2.3
Retina, Degeneration	4																								1 4.0
Harderian Gland Atrophy	+ + + + + + + + + + 4 + + + + + + + + + + + + + + +																								50 1 4.0
Zymbal's Gland	+																								1

URINARY SYSTEM

Kidney	+ +																								50
Mineralization	1 1																								22 1.2
Nephropathy	4 2 2 2 2 2 4 2 2 3 2 3 2 3 2 3 1 4 3 2 2 1 3 4 3																								50 2.6
Cortex, Cyst																									2 3.0
Pelvis, Inflammation																									1 1.0
Pelvis, Transitional Epithelium, Hyperplasia	1																								1 1.0
Transitional Epithelium, Hyperplasia																									1 1.0

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 + .. Tissue examined microscopically
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 M .. Missing tissue
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TDMS No. 88148 - 06
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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	0	0	
	5	7	7	6	7	7	7	7	7	6	6	6	7	6	7	7	7	7	6	5	7	7	7	4	7	
	7	2	2	2	2	2	2	2	0	9	7	4	2	5	2	2	1	1	1	4	2	0	2	2	2	
	5	7	7	7	7	7	7	7	6	4	1	0	7	0	7	7	7	6	7	9	7	0	7	0	7	
SPRAGUE-DAWLEY 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	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 MG/KG	0	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	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
																								* TOTALS		
Ureter	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	M	+	+	+	+	+	+	M	+	+	41
Urethra	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Urinary Bladder Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																								1 3.0		

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Date Report Requested: 06/10/2008
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DAY ON TEST	0																									males (cont...)
	7	6	4	4	5	3	6	6	7	1	5	5	5	6	5	6	5	4	6	4	5	3	5	6	7	
	2	7	9	8	9	3	8	5	2	7	0	3	3	2	1	1	4	5	9	6	2	8	3	4	2	
	7	4	9	6	5	2	9	7	7	6	0	7	5	6	4	7	9	4	8	7	1	0	2	4	7	
SPRAGUE-DAWLEY 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	0	0	
10 MG/KG	0	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	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Muscularis, Inflammation	1																								
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																								
Basophilic Focus																									
Cholangiofibrosis		3													1										
Clear Cell Focus										X				X				X			X				
Congestion																									
Eosinophilic Focus												X				X								X	
Fatty Change, Focal											1			1											
Fatty Change, Diffuse									2			2			1	1									

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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	0	
	7	6	4	4	5	3	6	6	7	1	5	5	5	6	5	6	5	4	6	4	5	3	5	6	7
.....																									
SPRAGUE-DAWLEY 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	0	
10 MG/KG	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	
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
																								
Fibrosis																									
Hematopoietic Cell Proliferation	1		2	1	1	1	1	1	1	1			1	1	1	1	2	1	1	1		2	1	1	
Hepatodiaphragmatic Nodule Hyperplasia, Nodular		X																							
Inflammation, Chronic Active Mixed Cell Focus	2	1	1	1			1	1	1	1	1		1	1	2	2			2	1		1	1	1	
Necrosis		3										2						4							
Pigmentation																									
Bile Duct, Dilatation																								1	
Bile Duct, Fibrosis																								1	
Bile Duct, Hyperplasia	2	2	1	1	1		2	2		1		1	1	3	3	1		1	3	2	1	3	3	1	
Centrilobular, Degeneration								1		1		1		2								1			
Hepatocyte, Hypertrophy	2								3																
Oval Cell, Hyperplasia																									
.....																									
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gingival, Hyperplasia, Cystic Keratinizing					0								0							0					
Gingival, Hyperplasia, Squamous		1	3	2			2						1	2	2				2				2		
.....																									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	1								1	1	1							1	1	1			1	1	
Inflammation	2		2																1				2		
Acinus, Hyperplasia																									
Acinus, Necrosis		1																							
Acinus, Vacuolization Cytoplasmic	1			1		1			1	1							1	1					1		
.....																									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																					2				
.....																									
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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	7	6	4	4	5	3	6	6	7	1	5	5	5	6	5	6	5	4	6	4	5	3	5	6	7
	2	7	9	8	9	3	8	5	2	7	0	3	3	2	1	1	4	5	9	6	2	8	3	4	2
	7	4	9	6	5	2	9	7	7	6	0	7	5	6	4	7	9	4	8	7	1	0	2	4	7
SPRAGUE-DAWLEY 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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 MG/KG	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

Infiltration Cellular, Mononuclear Cell Necrosis																									
Vacuolization Cytoplasmic		1			1				1	1		2		1	1	1	1		2	1			1	2	1
Zona Fasciculata, Hyperplasia					1	2			3	1		1	3	3	1	2			3				2	4	
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland Hyperplasia	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland Angiectasis Pars Distalis, Hyperplasia Pars Intermedia, Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thyroid Gland Angiectasis Inflammation C-cell, Hyperplasia Follicular Cell, Hyperplasia Follicular Cell, Hypertrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GENERAL BODY SYSTEM
 NONE

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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	0	0	0
	7	6	4	4	5	3	6	6	7	1	5	5	5	6	5	6	5	4	6	4	5	3	5	6	7	
	2	7	9	8	9	3	8	5	2	7	0	3	3	2	1	1	4	5	9	6	2	8	3	4	2	
	7	4	9	6	5	2	9	7	7	6	0	7	5	6	4	7	9	4	8	7	1	0	2	4	7	
SPRAGUE-DAWLEY 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	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	
10 MG/KG	0	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	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

males
(cont...)

GENITAL SYSTEM

Coagulating Gland Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
							3											2							
Epididymis Granuloma Sperm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland Hyperplasia, Squamous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Prostate Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Hyperplasia																									
		2						1											4		1	1		1	1
													1												
Seminal Vesicle Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis																									
Thrombosis																									
Germinal Epithelium, Degeneration																									
Germinal Epithelium, Mineralization	1	4						2	4	2		1				3	4	3		3					
Interstitial Cell, Hyperplasia																									

HEMATOPOIETIC SYSTEM

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DAY ON TEST	0																									males (cont...)
	7	6	4	4	5	3	6	6	7	1	5	5	5	6	5	6	5	4	6	4	5	3	5	6	7	
	2	7	9	8	9	3	8	5	2	7	0	3	3	2	1	1	4	5	9	6	2	8	3	4	2	
	7	4	9	6	5	2	9	7	7	6	0	7	5	6	4	7	9	4	8	7	1	0	2	4	7	
SPRAGUE-DAWLEY 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	0	0	
10 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Atrophy																											
Hyperplasia			2													3						3					
Lymph Node	+	M	M	M	+	+	+	+	+	+	M	M	M	M	+	M	+	M	M	M	+	M	+	M	+		
Pigmentation																											
Mediastinal, Ectasia																											
Mediastinal, Hyperplasia, Lymphoid																										3	
Mediastinal, Infiltration Cellular, Histiocyte																										2	
Pancreatic, Hyperplasia, Lymphoid																										2	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Atrophy																											
Congestion			2																								
Ectasia																											
Hyperplasia, Lymphoid	2		2																								
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+		
Atrophy																											
Hyperplasia, Lymphoid																											
Pigmentation					1			1	1			1			2		2	1				1	2	1			
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hematopoietic Cell Proliferation	2		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	2	3	2	2	1	
Pigmentation	1	1			1	1	1	1	1	1	1	1	1	1	1	1			2			1	1	1	1	2	
Lymphoid Follicle, Atrophy												2	2														
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

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First Dose M/F: 01/29/03 / 01/30/03

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	0	
	7	6	4	4	5	3	6	6	7	1	5	5	5	6	5	6	5	4	6	4	5	3	5	6	7
	2	7	9	8	9	3	8	5	2	7	0	3	3	2	1	1	4	5	9	6	2	8	3	4	2
	7	4	9	6	5	2	9	7	7	6	0	7	5	6	4	7	9	4	8	7	1	0	2	4	7
SPRAGUE-DAWLEY 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	0	0
10 MG/KG	0	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
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

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

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																									
Inflammation																									
Ulcer																									
Hair Follicle, Hyperplasia																									

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema																									
Gliosis																									
Necrosis																									

RESPIRATORY SYSTEM

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 + .. Tissue examined microscopically
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 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0 0																									males (cont...)
	7	6	4	4	5	3	6	6	7	1	5	5	5	6	5	6	5	4	6	4	5	3	5	6	7	
	2	7	9	8	9	3	8	5	2	7	0	3	3	2	1	1	4	5	9	6	2	8	3	4	2	
	7	4	9	6	5	2	9	7	7	6	0	7	5	6	4	7	9	4	8	7	1	0	2	4	7	
SPRAGUE-DAWLEY 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	0	0	
10 MG/KG	0	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	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Congestion		2												2										
Fibrosis																			2					
Inflammation, Granulomatous																								
Inflammation, Chronic Active	1						2				1								2					
Necrosis																								2
Pigmentation	1	1					1	2						1					2				1	2
Alveolar Epithelium, Hyperplasia	2																							
Alveolar Epithelium, Metaplasia, Bronchiolar					2	2		2		2	1	1		1	3	1	2	2		3	1	1	1	3
Alveolar Epithelium, Metaplasia, Squamous						1			1			4	1		1					4				
Alveolus, Infiltration Cellular, Histiocyte	1			1	1		2	2	1		2			2				4	3	2	1		2	1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation			1							1			1											
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Ear																								
External Ear, Hyperplasia, Squamous																								
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Anterior Chamber, Inflammation												2												
Cornea, Degeneration			2																					
Cornea, Inflammation							2				3	2		2						2			2	2
Cornea, Mineralization			2																					

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3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

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First Dose M/F: 01/29/03 / 01/30/03

Lab: BAT

DAY ON TEST	0																								
	7	6	4	4	5	3	6	6	7	1	5	5	5	6	5	6	5	4	6	4	5	3	5	6	7
SPRAGUE-DAWLEY RATS MALE 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
10 MG/KG	0																								
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males (cont...)

Retina, Degeneration																									
Harderian Gland Inflammation	+ +																								
Lacrimal Gland Cytoplasmic Alteration	3																								

URINARY SYSTEM

Kidney Mineralization	+ +																								
Nephropathy Cortex, Cyst	1 1																								
Pelvis, Inflammation	3 3 4 4 2 1 4 2 2 1 4 2 2 3 1 2 4 2 2 3 3 2 1 2 3																								
Pelvis, Transitional Epithelium, Hyperplasia	2 2 1																								
Ureter	+ + + M M + + + M + M + + + M + + M + + + M + M +																								
Urethra	+ +																								
Urinary Bladder Inflammation	+ +																								

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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	0	0		
	7	7	6	4	5	6	5	4	6	0	7	6	7	6	7	5	7	5	7	5	5	6	6	6	5		
	2	2	1	2	7	2	0	7	8	6	2	3	0	9	2	4	2	2	2	2	4	0	7	3	7		
	7	7	2	7	6	7	4	1	2	2	7	5	5	0	7	9	7	4	7	4	1	2	1	7	6		
SPRAGUE-DAWLEY 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	0	0		
10 MG/KG	0	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		
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0		
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Muscularis, Inflammation																											1	1.0
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Parasite Metazoan														X									X			6		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis																											1	1.0
Basophilic Focus														X													1	
Cholangiofibrosis																	4										3	2.7
Clear Cell Focus	X	X			X			X	X			X				X							X				12	
Congestion																3											1	3.0
Eosinophilic Focus			X								X							X	X	X			X				9	
Fatty Change, Focal																											2	1.0
Fatty Change, Diffuse						2						2			3		1				1						9	1.7

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 Lab: BAT

DAY ON TEST	SPRAGUE-DAWLEY RATS MALE																									* TOTALS	
	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
	7	7	6	4	5	6	5	4	6	0	7	6	7	6	7	5	7	5	7	5	5	6	6	6	5	5	0
	2	2	1	2	7	2	0	7	8	6	2	3	0	9	2	4	2	2	2	2	4	0	7	3	7	7	0
	7	7	2	7	6	7	4	1	2	2	7	5	5	0	7	9	7	4	7	4	1	2	1	7	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	0	0	0
	0	0	0	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	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	0	
Fibrosis																									2	1 2.0	
Hematopoietic Cell Proliferation	1	1	1		1		1	1	2		1	1	2	1	1	1	1	1	1	1					1 2	40 1.2	
Hepatodiaphragmatic Nodule																									X	2	
Hyperplasia, Nodular																								X		1	
Inflammation, Chronic Active	1	1	2	1	1				1			2	2	1	1	1	1	1	1	1	1	1	1			37 1.2	
Mixed Cell Focus														X											X	3	
Necrosis													2				3					1		3		7 2.6	
Pigmentation				2			1														2	1				4 1.5	
Bile Duct, Dilatation																										1 1.0	
Bile Duct, Fibrosis						1							1													3 1.0	
Bile Duct, Hyperplasia	2		2	1	1	2			1	1		1	1		2	1	2	2		1	1	3	1	1		38 1.6	
Centrilobular, Degeneration								2		1		2									1	2				10 1.4	
Hepatocyte, Hypertrophy	2									2					4										1	6 2.3	
Oval Cell, Hyperplasia																			1			1	1	1		4 1.0	
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Gingival, Hyperplasia, Cystic Keratinizing																									0	4 0.0	
Gingival, Hyperplasia, Squamous		2	1		1		2				1	3	2	1		1		2	1			1				21 1.7	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	49	
Atrophy				2	1				1					1	1											13 1.1	
Inflammation	1		3															2								7 1.9	
Acinus, Hyperplasia															3								1			2 2.0	
Acinus, Necrosis																										1 1.0	
Acinus, Vacuolization Cytoplasmic	1	1		2					2				2		1		2					1				16 1.3	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																										1 2.0	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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Page 30

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 Lab: BAT

	DAY ON TEST																								* TOTALS	
	0 7 2 7	0 7 2 7	0 6 1 2	0 4 2 7	0 5 7 6	0 6 2 7	0 5 0 4	0 4 7 1	0 6 8 2	0 5 6 2	0 0 7 2	0 7 8 5	0 6 6 5	0 7 3 9	0 6 2 5	0 5 9 7	0 7 4 9	0 5 2 7	0 5 2 4	0 6 4 1	0 6 0 2	0 6 7 1	0 6 3 7	0 5 7 6		
SPRAGUE-DAWLEY 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	0	0	
10 MG/KG	0	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	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Inflammation																										2	2.5	
Necrosis																											3	1.3
Epithelium, Hyperplasia	1	2	2	1	2	4	2			1	1		1	2		2	4		2	2	1	1	3	2	1	36	1.8	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Mineralization																											2	1.5
Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Peridontal Tissue, Inflammation					1			1	1				1	1				1									12	1.3

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation			4	4	3	1	1				3				4	2			3	2	2	2		2	3	1	29	2.7	
Mineralization																											1	1.0	
Aorta, Intima, Hyperplasia																								2			1	2.0	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cardiomyopathy	1	3	3	2	1	1	1	1	1	1	1	1	1	1	1		4	1	1	1	1	1	1	1	3	1	1	48	1.6
Thrombosis																								1	3			4	2.3
Endocardium, Hyperplasia																												1	1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Degeneration	2	1	1	1						1					2											2	14	1.4	
Hypertrophy	2	1			1	2				1		1		1	1		1	4	1	1					1	1	1	24	1.5

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 Page 31

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	0	0	0	0	0	
	7	7	6	4	5	6	5	4	6	0	7	6	7	6	7	5	7	5	7	5	5	6	6	6	5				
	2	2	1	2	7	2	0	7	8	6	2	3	0	9	2	4	2	2	2	2	4	0	7	3	7				
	7	7	2	7	6	7	4	1	2	2	7	5	5	0	7	9	7	4	7	4	1	2	1	7	6				
SPRAGUE-DAWLEY 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	0	0	0	0	0	
10 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	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	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0			* TOTALS	
Infiltration Cellular, Mononuclear Cell Necrosis																													2 1 2.0
Vacuolization Cytoplasmic		1	1		1		1	1			2	2	1	1	1	1				1	1	2		1				29 1.2	
Zona Fasciculata, Hyperplasia	2		3				1	2		2		2				1	3					2	1					22 2.0	
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	8 2.3
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parathyroid Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	48	9 1.6	
Pituitary Gland Angiectasis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0
Pars Distalis, Hyperplasia	1	1				2					1				2	2					1			3				10 1.5	
Pars Intermedia, Necrosis												2																1 2.0	
Thyroid Gland Angiectasis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 3.0
Inflammation																2							3						3 3.0
C-cell, Hyperplasia															2														1 2.0
Follicular Cell, Hyperplasia																4													2 4.0
Follicular Cell, Hypertrophy																							4						2 4.0

GENERAL BODY SYSTEM
NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008

Time Report Requested: 07:37:02

First Dose M/F: 01/29/03 / 01/30/03

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	0	0	0
	7	7	6	4	5	6	5	4	6	0	7	6	7	6	7	5	7	5	7	5	5	6	6	6	5	
	2	2	1	2	7	2	0	7	8	6	2	3	0	9	2	4	2	2	2	2	4	0	7	3	7	
	7	7	2	7	6	7	4	1	2	2	7	5	5	0	7	9	7	4	7	4	1	2	1	7	6	
SPRAGUE-DAWLEY 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	0	0	0
10 MG/KG	0	0	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
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS

GENITAL SYSTEM

Coagulating Gland Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																										3 2.3
Epididymis Granuloma Sperm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																										1 3.0
Preputial Gland Hyperplasia, Squamous	+	+	+	+	+	+	+	+	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																										3 2.0
Prostate Inflammation Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
	2					1				2																12 1.8
														1												4 1.3
Seminal Vesicle Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																										2 3.0
Testes Inflammation Necrosis Thrombosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																										1 2.0
																										2 2.5
																										1 2.0
Germinal Epithelium, Degeneration																										16 2.7
Germinal Epithelium, Mineralization																										3 1.3
Interstitial Cell, Hyperplasia																										1 2.0

HEMATOPOIETIC SYSTEM

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TDMS No. 88148 - 06
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DAY ON TEST	0 0																								* TOTALS	
	7	7	6	4	5	6	5	4	6	0	7	6	7	6	7	5	7	5	7	5	5	6	6	6		5
	2	2	1	2	7	2	0	7	8	6	2	3	0	9	2	4	2	2	2	2	4	0	7	3	7	
	7	7	2	7	6	7	4	1	2	2	7	5	5	0	7	9	7	4	7	4	1	2	1	7	6	
SPRAGUE-DAWLEY 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	0	0	
10 MG/KG	0	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	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																										1 2.0	
Hyperplasia			2									2										4	3			7 2.7	
Lymph Node	+	+	M	+	+	+	+	+	+	+	M	+	M	M	+	+	+	M	+	+	M	M	+	M	M	28	
Pigmentation																										1 1.0	
Mediastinal, Ectasia					2																					1 2.0	
Mediastinal, Hyperplasia, Lymphoid																										1 3.0	
Mediastinal, Infiltration Cellular, Histiocyte																										1 2.0	
Pancreatic, Hyperplasia, Lymphoid																										1 2.0	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy			2																							1 2.0	
Congestion																										1 2.0	
Ectasia														2												1 2.0	
Hyperplasia, Lymphoid										3				2							2			2		6 2.2	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	48	
Atrophy																										1 2.0	
Hyperplasia, Lymphoid										2																2 2.0	
Pigmentation	1	1		1	1		1	1	1				3	1	1		1	1		1			1			24 1.2	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hematopoietic Cell Proliferation	1	1	2	1	2	1	1	1	2	2	2		1	2	2	2	2	1	2	1	1	1	3	3	1	48 1.5	
Pigmentation	1	1	1	1	1	2	2	1				1	1		1	1		1	1	2	1	1	1			39 1.2	
Lymphoid Follicle, Atrophy													2				2									4 2.0	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	48		

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TDMS No. 88148 - 06

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Species/Strain: RATS/SD

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3,3',4,4'-Tetrachloroazobenzene

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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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
	7	7	6	4	5	6	5	4	6	0	7	6	7	6	7	5	7	5	7	5	5	6	6	6	5	7	7	2	7	6	7	4	1	2	2	7	5	5	0	7	9	7	4	7	4	1	2	1	7	6
SPRAGUE-DAWLEY 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
10 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9											* TOTALS															
Atrophy	3	4	3	3	2	3	4	3	4	3	4	3	4	4	2	2	2	3	3	3	3	4	3											47 3.3																

INTEGUMENTARY SYSTEM

Mammary Gland	+ +																								50
Skin	+ +																								50
Cyst Epithelial Inclusion																									3
Inflammation																									1 3.0
Ulcer																									1 4.0
Hair Follicle, Hyperplasia																									1 2.0

MUSCULOSKELETAL SYSTEM

Bone	+ +																								50
------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

NERVOUS SYSTEM

Brain	+ +																								50
Edema																									1 1.0
Glios																									2 2.0
Necrosis																									4 2.3

RESPIRATORY SYSTEM

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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	0					
	7	7	6	4	5	6	5	4	6	0	7	6	7	6	7	5	7	5	7	5	5	6	6	6	5				
.....																													
SPRAGUE-DAWLEY RATS MALE 10 MG/KG 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				
7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0					
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0					
.....																													
																								* TOTALS					
Lung	+ +																							50					
Congestion																								2 2.0					
Fibrosis																								1 2.0					
Inflammation, Granulomatous	1																							1 1.0					
Inflammation, Chronic Active	4																							6 2.0					
Necrosis	2																							1 2.0					
Pigmentation	2	1		1																								16 1.3	
Alveolar Epithelium, Hyperplasia	1 1																							3 2.7					
Alveolar Epithelium, Metaplasia, Bronchiolar	3	3	4		3	1		1	2	2	1	2	2	3		2	2	2	2	2	2	2	2						
Alveolar Epithelium, Metaplasia, Squamous	4	1		3	1																								14 2.0
Alveolus, Infiltration Cellular, Histiocyte	2	3	1	2		1	1	2		2	3	1	2	1	3		2	2	1	1	2		2	1					
.....																													
Nose	+ +																							50					
Inflammation	2																							5 1.2					
.....																													
Trachea	+ +																							50					
.....																													
SPECIAL SENSES SYSTEM																													
.....																													
Ear																								1					
External Ear, Hyperplasia, Squamous	3																							1 3.0					
.....																													
Eye	+ +																							50					
Anterior Chamber, Inflammation	3																							2 2.5					
Cornea, Degeneration																								1 2.0					
Cornea, Inflammation	1		3																								12 2.0		
Cornea, Mineralization	1 1																							3 2.0					

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TDMS No. 88148 - 06
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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	0					
	7	7	6	4	5	6	5	4	6	0	7	6	7	6	7	5	7	5	7	5	5	6	6	6	5				
	2	2	1	2	7	2	0	7	8	6	2	3	0	9	2	4	2	2	2	2	4	0	7	3	7				
	7	7	2	7	6	7	4	1	2	2	7	5	5	0	7	9	7	4	7	4	1	2	1	7	6				
SPRAGUE-DAWLEY 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	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				
10 MG/KG	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				
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0				
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0				
* TOTALS																													
Retina, Degeneration																									3	1	3.0		
Harderian Gland Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	3.0	
Lacrimal Gland Cytoplasmic Alteration																									+	4	1	4.0	
URINARY SYSTEM																													
Kidney Mineralization	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	20	1.1	
Kidney Nephropathy	1	3	3	2	2	2	2	3	1	1	1	3	3	1	1	2	3	2	2	2	3	4	3	2	2	50	2.3	3	2.3
Kidney Cortex, Cyst	3																									2	2	2.0	
Kidney Pelvis, Inflammation																									2	1	1.0		
Kidney Pelvis, Transitional Epithelium, Hyperplasia																									2	1	1.0		
Ureter	+	M	M	M	+	M	+	+	+	+	M	+	+	M	+	+	+	M	+	M	M	M	+	M	+	31			
Urethra	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Urinary Bladder Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	50	1	2.0

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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	0	0	0
	5	4	5	6	6	6	4	5	6	5	7	5	6	4	0	5	6	6	6	6	5	7	7	7	7	4
	5	9	6	0	6	8	9	8	5	3	1	6	0	3	3	7	7	5	0	1	7	0	1	2	7	
	4	7	2	9	0	9	1	8	8	3	2	2	8	8	8	3	0	3	2	7	4	7	2	7	4	
SPRAGUE-DAWLEY 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	0	0	0
30 MG/KG	0	0	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	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	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	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	2	3	4	5	males (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2
Intestine Small, Ileum Dysplasia Fibrosis Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver Angiectasis Basophilic Focus Cholangiofibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X

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First Dose M/F: 01/29/03 / 01/30/03

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	0	0
DAY ON TEST		5	4	5	6	6	6	4	5	6	5	7	5	6	4	0	5	6	6	6	6	5	7	7	7	4
		5	9	6	0	6	8	9	8	5	3	1	6	0	3	3	7	7	5	0	1	7	0	1	2	7
		4	7	2	9	0	9	1	8	8	3	2	2	8	8	8	3	0	3	2	7	4	7	2	7	4
SPRAGUE-DAWLEY RATS MALE	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
		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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30 MG/KG	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
Clear Cell Focus	X				X												X									
Degeneration, Cystic																										
Eosinophilic Focus																										
Fatty Change, Focal										1											1				1	
Fatty Change, Diffuse					3	1	2	3				1									2	2	1	3	1	
Hematopoietic Cell Proliferation	2	1	1	1	1	1			3	1	1		1	1		1	1	1	2	2		1	1	1		
Hepatodiaphragmatic Nodule																										
Hyperplasia, Nodular				X																						
Inflammation, Granulomatous																										
Inflammation, Chronic Active	3	3	1		1		2	1	1	1	2			1	1				1		1			1		
Mixed Cell Focus																										
Necrosis				1	2			2			2	1		3						2	1		3			
Pigmentation									1																	
Toxic Hepatopathy																						1				
Bile Duct, Cyst																										
Bile Duct, Dilatation				4																						
Bile Duct, Fibrosis																										
Bile Duct, Hyperplasia	3	2	2		1	1	1	1	2	1		1	2				2	1	1	1	1	1	2	1		
Centrilobular, Degeneration				1	2		1		2	1	1	2	1	1					1	1	2	2			1	
Hepatocyte, Hypertrophy									1															3	2	
Hepatocyte, Multinucleated																									1	
Oval Cell, Hyperplasia									1		2												1			
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gingival, Hyperplasia, Cystic Keratinizing	0	0	0		0	0			0	0	0	0	0					0	0	0		0				
Gingival, Hyperplasia, Squamous					1	1		3	2	1	1			1			1			2		2		1	2	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy									1							1				1						
Inflammation	3	3										2														
Acinus, Hyperplasia																							1			

males (cont...)

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0 0																									males (cont...)
	5	4	5	6	6	6	4	5	6	5	7	5	6	4	0	5	6	6	6	6	5	7	7	7	4	
SPRAGUE-DAWLEY RATS MALE ANIMAL ID	0 0																									males (cont...)
	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	
30 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Acinus, Vacuolization Cytoplasmic			1	1		2	1	2	2			1		1		1	1		3	1	1		3			
Salivary Glands Cyst	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Forestomach Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Forestomach Mineralization																						1				
Stomach, Forestomach Necrosis																										
Stomach, Forestomach Epithelium, Hyperplasia	3	2	3		1		4	3	2	1	2	1	1	1		2	1	2	1	2		2	4	1	2	
Stomach, Glandular Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Glandular Mineralization																								2		
Stomach, Glandular Necrosis																								2		
Tooth Peridontal Tissue, Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
		1	1	1	2	2		2	2			1	1				1	1						1		

CARDIOVASCULAR SYSTEM

Blood Vessel Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Blood Vessel Mineralization	4	2	3	2	1	1		3	1	4	1	1	4			2	2	2	3	4	2			2		
Heart Cardiomyopathy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Heart Inflammation	2	1	2	2	1	1	1	2	2	1	2	1	2	2		2	2	2	2	2	2	1	2	1	1	3

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 + .. Tissue examined microscopically
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TDMS No. 88148 - 06
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 Route: GAVAGE
 Species/Strain: RATS/SD

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 CAS Number: 14047-09-7

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 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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	0	
	5	4	5	6	6	6	4	5	6	5	7	5	6	4	0	5	6	6	6	6	5	7	7	4	
	5	9	6	0	6	8	9	8	5	3	1	6	0	3	3	7	7	5	0	1	7	0	1	2	7
	4	7	2	9	0	9	1	8	8	3	2	2	8	8	8	3	0	3	2	7	4	7	2	7	4
SPRAGUE-DAWLEY 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	0	0
30 MG/KG	0	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

Mineralization																									1	
Thrombosis																										1

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Degeneration		2	2	1		2											1	3	1					1		
Hypertrophy	1				1		2		3		1		1													
Necrosis									1											2						
Vacuolization Cytoplasmic	1		2			1		2	1	1	1	2		1		1	1	2		1	1	1	2	2	2	
Zona Fasciculata, Hyperplasia			1		2		2	2	1		3	1	4	2			1	2							2	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																		4								
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	
Hyperplasia		2	1					2														2				
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia				2	1				1		1	1						1		1						
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																									3	
Inflammation								3																	3	
C-cell, Hyperplasia																									1	

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TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0																								
	5	4	5	6	6	6	4	5	6	5	7	5	6	4	0	5	6	6	6	5	7	7	7	4	
SPRAGUE-DAWLEY RATS MALE ANIMAL ID	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	
30 MG/KG	0																								
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

Follicular Cell, Hyperplasia							4				3	2												2
Follicular Cell, Hypertrophy		4										3				2								4

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Coagulating Gland Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
									2													3			
Epididymis Granuloma Sperm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		3											4												
Preputial Gland Hyperplasia, Squamous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Prostate Inflammation Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
					2				4			2									1	3			
Seminal Vesicle Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
																						2			
Testes Necrosis Germinal Epithelium, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		2	2		4							1	1	2							4	1	3	1	4

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 Page 42

TDMS No. 88148 - 06
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 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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	0	
	5	4	5	6	6	6	4	5	6	5	7	5	6	4	0	5	6	6	6	6	5	7	7	7	4
	5	9	6	0	6	8	9	8	5	3	1	6	0	3	3	7	7	5	0	1	7	0	1	2	7
	4	7	2	9	0	9	1	8	8	3	2	2	8	8	8	3	0	3	2	7	4	7	2	7	4
SPRAGUE-DAWLEY 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	0	0
30 MG/KG	0	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

Germinal Epithelium, Mineralization

1

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Hyperplasia	1	3	2	2					2	3				2							2	2		2		
Lymph Node	M	+	+	M	+	+	+	+	+	+	M	+	+	+	M	M	+	+	M	+	+	M	+	M	M	
Mediastinal, Hemorrhage																										
Lymph Node, Mandibular	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid														2												
Infiltration Cellular, Histiocyte																										
Necrosis				2																						
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy				2																						
Hyperplasia, Lymphoid														2												
Pigmentation		1			1	1		1		1		2			1	1		1		1		1		1		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Congestion				2																						
Hematopoietic Cell Proliferation		2	1		1	2	2	2	1	1	1	3	2	1	1	2	2	1	1	2	1	2		1	2	
Pigmentation	1	1	1	1		1	1		1	2	1		2			1	1	1	2		2	1	1	2		
Lymphoid Follicle, Atrophy				2																				4		
Thymus	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	M	+	+	+	+	+	+	

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TDMS No. 88148 - 06
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 Species/Strain: RATS/SD

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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	0	0
	5	4	5	6	6	6	4	5	6	5	7	5	6	4	0	5	6	6	6	6	5	7	7	7	4
	5	9	6	0	6	8	9	8	5	3	1	6	0	3	3	7	7	5	0	1	7	0	1	2	7
	4	7	2	9	0	9	1	8	8	3	2	2	8	8	8	3	0	3	2	7	4	7	2	7	4
SPRAGUE-DAWLEY 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	0	0
30 MG/KG	0	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
Atrophy	3	4	4	4	3	2	3	4	3	2		3	3			4	4	4		4	4	4	4	4	4

males (cont...)

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																									
Hyperplasia				1																					
Inflammation																							3		
Ulcer																									2

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tendon, Inflammation																									
Skeletal Muscle																									
Hemorrhage																									3

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Necrosis																									2

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 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
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 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	0	0	0	0
	5	4	5	6	6	6	4	5	6	5	7	5	6	4	0	5	6	6	6	6	5	7	7	7	4		
	5	9	6	0	6	8	9	8	5	3	1	6	0	3	3	7	7	5	0	1	7	0	1	2	7		
	4	7	2	9	0	9	1	8	8	3	2	2	8	8	8	3	0	3	2	7	4	7	2	7	4		
SPRAGUE-DAWLEY 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	0	0	0	0
30 MG/KG	0	0	0	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	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	1
	0	0	0	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	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		males (cont...)

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Granulomatous									1																		
Inflammation, Chronic Active								3	1																	1	
Pigmentation				1	1				2	2			1									2					
Alveolar Epithelium, Metaplasia, Bronchiolar			2		2	1		1	2	2	2	3				3	2	1			4	1	2	2	3		
Alveolar Epithelium, Metaplasia, Squamous			2	1	1	2				1	4	1	1			2	1					3	2	1	4		
Alveolus, Infiltration Cellular, Histiocyte	1	1	3	3		2		2	2	3		2	2	2		1	2				2	2	1		2	1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation			1								1						1		1							1	
Nasolacrimal Duct, Hyperplasia																											
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Anterior Chamber, Inflammation																											
Cornea, Inflammation																											1
Lens, Cataract																											
Optic Nerve, Infiltration Cellular, Mononuclear Cell																											
Retina, Degeneration																											

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 + .. 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

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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	0	0
	5	4	5	6	6	6	4	5	6	5	7	5	6	4	0	5	6	6	6	6	5	7	7	7	4
	5	9	6	0	6	8	9	8	5	3	1	6	0	3	3	7	7	5	0	1	7	0	1	2	7
	4	7	2	9	0	9	1	8	8	3	2	2	8	8	8	3	0	3	2	7	4	7	2	7	4
SPRAGUE-DAWLEY RATS MALE 30 MG/KG 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
	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males (cont...)

Harderian Gland +

Zymbal's Gland

URINARY SYSTEM

Kidney +
 Mineralization 1
 Nephropathy 3 3 4 2 3 3 3 2 2 2 3 2 2 2 2 2 2 3 2 2 1 1 3
 Cortex, Cyst
 Pelvis, Transitional Epithelium, Hyperplasia 1
 Renal Tubule, Hyperplasia, Atypical

Ureter + M M + + + + + + + M + + + + M + + + + + + + + + + +

Urethra +

Urinary Bladder +
 Inflammation 2 2

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 + .. 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
 Page 46

DAY ON TEST	0																								* TOTALS
	5	2	5	6	4	6	4	3	7	4	7	6	2	6	3	5	7	1	2	6	5	5	6	4	
	8	9	8	0	4	9	5	0	2	8	2	5	5	5	6	7	2	1	8	1	7	5	7	6	7
	7	5	0	9	8	7	2	7	7	7	7	3	8	3	7	4	7	5	1	7	3	4	1	8	4
SPRAGUE-DAWLEY 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	0	0
30 MG/KG	0	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	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
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Large, Cecum Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	+	+	50
																										1 2.0
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	50	
																										3
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Duodenum Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																									1 2.0	
Intestine Small, Ileum Dysplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Fibrosis																								3	1 3.0	
Inflammation																								3	1 3.0	
Intestine Small, Jejunum Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																								4	1 4.0	
Liver Angiectasis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basophilic Focus										2															1 2.0	
Cholangiofibrosis				X																					5	
				2																				3	2 2.5	

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Page 47

DAY ON TEST	0 0																								* TOTALS
	5	2	5	6	4	6	4	3	7	4	7	6	2	6	3	5	7	1	2	6	5	5	6	4	
SPRAGUE-DAWLEY RATS MALE ANIMAL ID	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
30 MG/KG	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Clear Cell Focus			X						X	X					X		X							8	
Degeneration, Cystic													1											1 1.0	
Eosinophilic Focus	X			X					X						X									4	
Fatty Change, Focal					1			1		2					1									7 1.1	
Fatty Change, Diffuse			2			2			3	1		2			1	3	2							18 1.9	
Hematopoietic Cell Proliferation	2	1	2	1	1		1	2	1	1			1	1	1	1	1					2	2	1	
Hepatodiaphragmatic Nodule				X																				1	
Hyperplasia, Nodular																								1	
Inflammation, Granulomatous																				1				1 1.0	
Inflammation, Chronic Active	2	1	1			2	1	1		2	1	1		1	1	1	1					1	3		
Mixed Cell Focus								X					X						X					3	
Necrosis						2	1			1			2		2		2		1				4	3	
Pigmentation				1		2				2				3										5 1.8	
Toxic Hepatopathy					1							1	3										2	5 1.6	
Bile Duct, Cyst						3																		1 3.0	
Bile Duct, Dilatation				3	4																			3 3.7	
Bile Duct, Fibrosis				2																				1 2.0	
Bile Duct, Hyperplasia	2		1	4	4	2	1	1	2	3		2		1		4	1			1	2	1	2	36 1.7	
Centrilobular, Degeneration			1			2				1			1	1					1	2	2		2	23 1.4	
Hepatocyte, Hypertrophy											3	4		4			1	4	4			1	3	11 2.7	
Hepatocyte, Multinucleated																								1 1.0	
Oval Cell, Hyperplasia				2							2		2		2							1		8 1.6	
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Gingival, Hyperplasia, Cystic Keratinizing					0						0				0					0				18 0.0	
Gingival, Hyperplasia, Squamous	1		3	1		4			2	1	1		4		1				3	2			1	24 1.8	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy					1			1	1					1		1				1				10 1.1	
Inflammation	3				4					2					2									7 2.7	
Acinus, Hyperplasia																						1		2 1.0	

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TDMS No. 88148 - 06
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 Route: GAVAGE
 Species/Strain: RATS/SD

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 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

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 First Dose M/F: 01/29/03 / 01/30/03
 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	0	0	0	0			
	5	2	5	6	4	6	4	3	7	4	7	6	2	6	3	5	7	1	2	6	5	5	6	4	4					
	8	9	8	0	4	9	5	0	2	8	2	5	5	5	6	7	2	1	8	1	7	5	7	6	7					
	7	5	0	9	8	7	2	7	7	7	7	3	8	3	7	4	7	5	1	7	3	4	1	8	4					
.....																														
SPRAGUE-DAWLEY 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	0	0	0	0			
30 MG/KG	0	0	0	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	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	1			
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	5			
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0			* TOTALS		
Acinus, Vacuolization Cytoplasmic	1		3					2	2	1	1	1	1	2			2	3	2	1		2	1	2				30	1.6	
Salivary Glands Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		49	1 4.0
Stomach, Forestomach Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50	2 2.0
Mineralization				2																			2						1	1.0
Necrosis Epithelium, Hyperplasia	2	2	3	3	1	3	1	1	2	3	3	1		1		3	3	1	1	4	3	4	3	4	2			44	2.2	
Stomach, Glandular Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50	1 2.0
Mineralization									2							2													2	2.0
Necrosis																													1	2.0
Tooth Peridontal Tissue, Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50	19 1.4
	2		2		1	1			1		1												2							

CARDIOVASCULAR SYSTEM

Blood Vessel Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	30 2.6
Mineralization	4	4		3	3	3		2	2							3	4						2	3						4	1.8
Heart Cardiomyopathy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	45 1.5
Inflammation	1		1	1	1	1	1	4	1	2	1		1	1	1	2	3	1		2	1		1	1	1					2	2.5

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Page 49

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TDMS No. 88148 - 06
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
3,3',4,4'-Tetrachloroazobenzene
CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
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First Dose M/F: 01/29/03 / 01/30/03
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	0	0
DAY ON TEST	5	2	5	6	4	6	4	3	7	4	7	6	2	6	3	5	7	1	2	6	5	5	6	4	4
	8	9	8	0	4	9	5	0	2	8	2	5	5	5	6	7	2	1	8	1	7	5	7	6	7
	7	5	0	9	8	7	2	7	7	7	7	3	8	3	7	4	7	5	1	7	3	4	1	8	4

SPRAGUE-DAWLEY RATS MALE 30 MG/KG	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

*** TOTALS**

Mineralization	1	1.0
Thrombosis	2	2.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																2									1 2.0
Degeneration	1					1					1							1							14 1.4
Hypertrophy				1							2	1						3		2					11 1.6
Necrosis																	1								4 1.3
Vacuolization Cytoplasmic	2			1	1	1					1	2	2									1	2	2	31 1.5
Zona Fasciculata, Hyperplasia	2		3							3	1	1					2								19 1.9

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia										1	3												1		2	5 2.2

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
--------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	M	+	M	M	+	+	+	+	+	+	M	+	+	+	44
Hyperplasia										2	2														6 1.8

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Hyperplasia	1										1	1	2	1										1	13 1.2

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																									1 3.0
Inflammation											3		4	3			1		3						9 2.8
C-cell, Hyperplasia																								4	2 2.5

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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	0	0	0
	5	2	5	6	4	6	4	3	7	4	7	6	2	6	3	5	7	1	2	6	5	5	6	4	4	
	8	9	8	0	4	9	5	0	2	8	2	5	5	5	6	7	2	1	8	1	7	5	7	6	7	
	7	5	0	9	8	7	2	7	7	7	7	3	8	3	7	4	7	5	1	7	3	4	1	8	4	
SPRAGUE-DAWLEY 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	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	
30 MG/KG	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	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
																								* TOTALS		

Follicular Cell, Hyperplasia	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
Follicular Cell, Hypertrophy																					1	2			
																								10 3.5	
																								6 2.7	

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Coagulating Gland Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																								2 2.5		
Epididymis Granuloma Sperm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
	4																							3 3.7		
Preputial Gland Hyperplasia, Squamous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																							2	1 2.0		
Prostate Inflammation Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
								1												3				7 2.3		
																								3 2.0		
Seminal Vesicle Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																								1 2.0		
Testes Necrosis Germinal Epithelium, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
	4																							1 4.0		
	4	1			2			1		4																18 2.2

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DAY ON TEST	0 0																								* TOTALS	
	5 2 5 6 4 6 4 3 7 4 7 6 2 6 3 5 7 1 2 6 5 5 6 4 4																									
SPRAGUE-DAWLEY RATS MALE ANIMAL ID	0 0																									
	1 1																									
30 MG/KG	2 2 2 2 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5																									
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0																									
Germinal Epithelium, Mineralization	2												1												3	1.3

HEMATOPOIETIC SYSTEM

Bone Marrow	+ +																								49																							
Atrophy																									2	2.5																						
Hyperplasia	1	2		2	2		1	2					1				2		1	3	4		3		21	2.0																						
Lymph Node	+ + + + + + + + + M + M + M M + M M M M + M M M M																								29																							
Mediastinal, Hemorrhage																									4	1	4.0																					
Lymph Node, Mandibular	+ +																								49																							
Hyperplasia, Lymphoid																									1	2.0																						
Infiltration Cellular, Histiocyte																									2	1	2.0																					
Necrosis																										2	2.0																					
Lymph Node, Mesenteric	+ +																								50																							
Atrophy																									1	2.0																						
Hyperplasia, Lymphoid																										2	2.0																					
Pigmentation	1	1				1		1					1	1					2	1	1	1	1	1	2	25	1.1																					
Spleen	+ +																								50																							
Congestion																									1	1	2.0																					
Hematopoietic Cell Proliferation	1	2	2	1	2	3	1	1	2	2	1	2	1	2	1	2	1	1	1	1	1	1	2	1	44	1.5																						
Pigmentation	1	2	2	1	2		2	2	1	1	2	1	2	2	1	1	1	2	1	1	3			2	40	1.5																						
Lymphoid Follicle, Atrophy																									2	2								1													5	2.2
Thymus	+ M																								46																							

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A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
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2) Mild 4) Marked

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	ANIMAL ID																								* TOTALS
	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	2	5	6	4	6	4	3	7	4	7	6	2	6	3	5	7	1	2	6	5	5	6	4	4	
8	9	8	0	4	9	5	0	2	8	2	5	5	5	6	7	2	1	8	1	7	5	7	6	7	
7	5	0	9	8	7	2	7	7	7	7	3	8	3	7	4	7	5	1	7	3	4	1	8	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
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
2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Atrophy	4	3	4	4	4	3	4	4	3	4	2	4	3	4	2	3	4	2	4	4		4	4	4		44 3.5
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	---	---	---	--	---------------

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst Epithelial Inclusion				X																						2	
Hyperplasia																										1	1.0
Inflammation															3											2	3.0
Ulcer																										1	2.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Tendon, Inflammation															2												1	2.0
Skeletal Muscle																												
Hemorrhage																									+		2	1 3.0

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Necrosis																											1	2.0

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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	0	
	5	2	5	6	4	6	4	3	7	4	7	6	2	6	3	5	7	1	2	6	5	5	6	4	4
	8	9	8	0	4	9	5	0	2	8	2	5	5	5	6	7	2	1	8	1	7	5	7	6	7
	7	5	0	9	8	7	2	7	7	7	7	3	8	3	7	4	7	5	1	7	3	4	1	8	4
SPRAGUE-DAWLEY 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	0	0
30 MG/KG	0	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	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
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
																								* TOTALS	

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Granulomatous																							1		2 1.0	
Inflammation, Chronic Active			3						2														1		6 1.8	
Pigmentation				1				1	1	1					1	1									12 1.3	
Alveolar Epithelium, Metaplasia, Bronchiolar	2		2	2		2	1	1	2	3	3	2		2	1	3	1	1						1	32 1.9	
Alveolar Epithelium, Metaplasia, Squamous			1		1						1	1		2	2					4		4			22 1.9	
Alveolus, Infiltration Cellular, Histiocyte	1	2		1		2	1	1	2	4	2	1		2		1	2		1			2	3	2	35 1.8	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation				1					1															1	1	9 1.0
Nasolacrimal Duct, Hyperplasia				2																						1 2.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Anterior Chamber, Inflammation				1																						1 1.0
Cornea, Inflammation	1					1														2		1				5 1.2
Lens, Cataract						1																				1 1.0
Optic Nerve, Infiltration Cellular, Mononuclear Cell																						1				1 1.0
Retina, Degeneration						1			1		2	2		1						2						6 1.5

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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	0	0	0	0	0	0									
	5	2	5	6	4	6	4	3	7	4	7	6	2	6	3	5	7	1	2	6	5	5	6	4	4	4	4	4	4									
	8	9	8	0	4	9	5	0	2	8	2	5	5	5	6	7	2	1	8	1	7	5	7	6	7	7	7	7	7									
	7	5	0	9	8	7	2	7	7	7	7	3	8	3	7	4	7	5	1	7	3	4	1	8	4	4	4	4	4									
SPRAGUE-DAWLEY RATS MALE 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									
30 MG/KG	0	0	0	0	0	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	1	1	1									
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	5									
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0													

* TOTALS

Harderian Gland + 50

Zymbal's Gland + 1

URINARY SYSTEM

Kidney + 50

Mineralization 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 24 1.1

Nephropathy 3 1 2 2 3 3 2 4 2 3 1 1 1 2 2 2 1 1 2 2 2 2 2 2 47 2.2

Cortex, Cyst 2 1 2.0

Pelvis, Transitional Epithelium, Hyperplasia 1 1.0

Renal Tubule, Hyperplasia, Atypical 1 1.0

Ureter + + + + + + + + + + M M + + + + + + M + + M + + + + 42

Urethra + 50

Urinary Bladder + 50

Inflammation 2 2.0

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Page 55

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
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 First Dose M/F: 01/29/03 / 01/30/03
 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	0	
	5	5	5	5	6	7	5	6	6	6	5	5	5	6	4	1	7	1	3	6	6	4	5	6	6
	4	8	7	8	5	0	8	4	3	5	2	8	8	0	8	9	2	7	8	4	1	4	1	6	0
	4	8	1	5	0	6	9	5	5	0	9	6	8	3	4	2	7	4	7	8	3	3	4	7	8
SPRAGUE-DAWLEY 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	0	0
100 MG/KG	0	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	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
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan																								
Thrombosis																								
Intestine Large, Rectum Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum Fibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Necrosis																								
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver Basophilic Focus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Clear Cell Focus																								
Degeneration, Cystic																								

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DAY ON TEST	0 0																									males (cont...)
	5 5 5 5 6 7 5 6 6 6 5 5 5 6 4 1 7 1 3 6 6 4 5 6 6 4 8 7 8 5 0 8 4 3 5 2 8 8 0 8 9 2 7 8 4 1 4 1 6 0 4 8 1 5 0 6 9 5 5 0 9 6 8 3 4 2 7 4 7 8 3 3 4 7 8																									
SPRAGUE-DAWLEY RATS MALE 100 MG/KG ANIMAL ID	0 0																									males (cont...)
	0 1 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																									
Eosinophilic Focus	X X																									
Fatty Change, Focal																										2
Fatty Change, Diffuse	1 2 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																									2
Fibrosis																										2
Hematopoietic Cell Proliferation	1 1																									2
Hyperplasia, Nodular																										2
Inflammation, Chronic Active	1 1																									2
Mixed Cell Focus																										
Necrosis	2 3 2 1 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																									1
Pigmentation																										2
Toxic Hepatopathy	1 1																									1
Bile Duct, Cyst																										1
Bile Duct, Fibrosis																										
Bile Duct, Hyperplasia	1 3 2 3 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2																									4
Bile Duct, Metaplasia	1 1																									
Centrilobular, Degeneration	2 1 1 3																									1
Centrilobular, Fatty Change																										
Hepatocyte, Hypertrophy	4 1 2 1 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3																									3
Hepatocyte, Multinucleated	1 1																									
Oval Cell, Hyperplasia	2 1 2																									
Mesentery	+																									
Oral Mucosa	+ +																									
Gingival, Hyperplasia, Cystic Keratinizing	0 0																									
Gingival, Hyperplasia, Squamous	2 2 1 3 3 1 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2																									3
Pancreas	+ +																									
Atrophy	1 2																									2
Inflammation																										3

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Date Report Requested: 06/10/2008
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 Lab: BAT

DAY ON TEST	0																								
	5	5	5	5	6	7	5	6	6	6	5	5	5	6	4	1	7	1	3	6	6	4	5	6	6
SPRAGUE-DAWLEY RATS MALE 100 MG/KG ANIMAL ID	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

males
(cont...)

Acinus, Vacuolization Cytoplasmic					1		2	1							1	1	1				2				
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy							2							2										2	
Fibrosis							2																		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																									
Inflammation							1																		
Necrosis																									
Epithelium, Hyperplasia	3	4	4	1	1	4	3	2	3	4	3	3	3	2	3		2		2	1	1	2	1	3	1
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization																									
Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peridontal Tissue, Inflammation								1		2		2	2				1		1	2			1	1	1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	3		3	3			1	2	2	2	1		3	4		2	2			2		4	4	2	3
Mineralization													3									1	1		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2		2	1	2	3	1	2	3	1	3	2	2	1	2	2	3	1	1	2	1	2	2	2	1
Inflammation																			2						
Mineralization																							2		

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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	0	0	
	5	5	5	5	6	7	5	6	6	6	5	5	5	6	4	1	7	1	3	6	6	4	5	6	6	
	4	8	7	8	5	0	8	4	3	5	2	8	8	0	8	9	2	7	8	4	1	4	1	6	0	
	4	8	1	5	0	6	9	5	5	0	9	6	8	3	4	2	7	4	7	8	3	3	4	7	8	
SPRAGUE-DAWLEY RATS MALE ANIMAL ID 100 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	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
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6

Necrosis																										3
Thrombosis										2																2

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration													2							1						
Hypertrophy					2			1	1	1					1	1		1								1
Necrosis		2	2			2				1				3			1				2					
Vacuolization Cytoplasmic		2	1	1	1	1	1	1	2				2		2		1				2	2	1			
Zona Fasciculata, Hyperplasia		1	1		3		2		1				2		4	2							2	2		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia									1					1												
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																										
Parathyroid Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia													2													
Pituitary Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																										
Necrosis	1																3									
Pars Distalis, Hyperplasia		2	2				1				1										1					2
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosis		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

Page 59

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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	0	0		
	5	5	5	5	6	7	5	6	6	6	5	5	5	6	4	1	7	1	3	6	6	4	5	6	6		
	4	8	7	8	5	0	8	4	3	5	2	8	8	0	8	9	2	7	8	4	1	4	1	6	0		
	4	8	1	5	0	6	9	5	5	0	9	6	8	3	4	2	7	4	7	8	3	3	4	7	8		
SPRAGUE-DAWLEY RATS MALE 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		
	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		
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		
100 MG/KG																											males (cont...)
Inflammation	3 2		3 2																					3 4			
C-cell, Hyperplasia																											
Follicular Cell, Hyperplasia	4																					4 4					
Follicular Cell, Hypertrophy	4 2		4 3																					2			

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation									4	4																	
Metaplasia, Squamous									4																		
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Granuloma Sperm																					4						
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+		
Hyperplasia, Squamous											1																
Inflammation															1												
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation	1		1 1		3			4		2						1		1			1 2						
Epithelium, Hyperplasia				1		2																					
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperplasia									4																		

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TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

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 Lab: BAT

DAY ON TEST	0 0																								males (cont...)
	5 5 5 5 6 7 5 6 6 6 5 5 5 6 4 1 7 1 3 6 6 4 5 6 6																								
4 8 7 8 5 0 8 4 3 5 2 8 8 0 8 9 2 7 8 4 1 4 1 6 0																									
4 8 1 5 0 6 9 5 5 0 9 6 8 3 4 2 7 4 7 8 3 3 4 7 8																									
SPRAGUE-DAWLEY RATS MALE 100 MG/KG	ANIMAL ID																								
	0 0																								
	0 0																								
	1 1																								
	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																								
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																									

Inflammation																								4	4			2																																										
Metaplasia, Squamous																								4																			3			1																								
Testes																								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																							
Inflammation																																																																						
Necrosis																																															3																							
Germinal Epithelium, Degeneration																								2	4	4	1											1	4	2	4					2	3																							
Germinal Epithelium, Mineralization																								1																																														
Interstitial Cell, Hyperplasia																																															1																							

HEMATOPOIETIC SYSTEM

Bone Marrow																								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																																																																																													
Atrophy																								2																																																																																																																			
Hyperplasia																																															1	2											3	4			4	3			3	2			2	4																																																																			
Necrosis																																															1																																																																																												
Lymph Node																								+	+	+	+	+	M	+	+	M	M	M	M	+	M	+	+	M	+	+	+	+	+	+	+																																																																																												
Deep Cervical, Atrophy																																															4																																																																																												
Deep Cervical, Ectasia																																															2																																																																																												
Mediastinal, Atrophy																																																																						4																																																																					
Mediastinal, Ectasia																																																																																													2																																														
Mediastinal, Hemorrhage																																																																																													1																																														
Mediastinal, Hyperplasia, Lymphoid																																															2																			2																																																																									
Lymph Node, Mandibular																								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																																																																																												
Atrophy																								2											3			2	2											2																																																																																									
Hyperplasia, Lymphoid																																																																																													2																																														
Pigmentation																																																																																																																				2																							

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Page 61

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0 0																								
	5 5 5 5 6 7 5 6 6 6 5 5 5 6 4 1 7 1 3 6 6 4 5 6 6																								
SPRAGUE-DAWLEY RATS MALE 100 MG/KG ANIMAL ID	4 8 7 8 5 0 8 4 3 5 2 8 8 0 8 9 2 7 8 4 1 4 1 6 0																								
	4 8 1 5 0 6 9 5 5 0 9 6 8 3 4 2 7 4 7 8 3 3 4 7 8																								
	0 0																								
	0 0																								
	1 1																								
	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																								
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																								
	males (cont...)																								

Lymph Node, Mesenteric Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Granulomatous Pigmentation								2	2																
Spleen Hematopoietic Cell Proliferation	1	2																							
Pigmentation Lymphoid Follicle, Atrophy																									
Thymus Atrophy	3	3	3	4	3	4	3	4	4	M	2	4	4	4	4	4	4	3	3						
Inflammation																									

INTEGUMENTARY SYSTEM

Mammary Gland Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin Cyst Epithelial Inclusion																									
Inflammation Ulcer																									

MUSCULOSKELETAL SYSTEM

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 Page 62

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

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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	0	0
	5	5	5	5	6	7	5	6	6	6	5	5	5	6	4	1	7	1	3	6	6	4	5	6	6
	4	8	7	8	5	0	8	4	3	5	2	8	8	0	8	9	2	7	8	4	1	4	1	6	0
	4	8	1	5	0	6	9	5	5	0	9	6	8	3	4	2	7	4	7	8	3	3	4	7	8
SPRAGUE-DAWLEY 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	0	0
100 MG/KG	0	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	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
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Anterior Chamber, Inflammation																								
Cornea, Inflammation																								
Retina, Atrophy																								
Retina, Degeneration																								
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																								

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization																								
Nephropathy																								
Cortex, Cyst																								
Pelvis, Dilatation																								
Pelvis, Inflammation																								
Pelvis, Transitional Epithelium, Hyperplasia																								
Ureter	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Transitional Epithelium, Hyperplasia																								
Urethra	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Transitional Epithelium, Hyperplasia																								

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TDMS No. 88148 - 06
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 Species/Strain: RATS/SD

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 Lab: BAT

DAY ON TEST	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	0	
5	5	5	5	6	7	5	6	6	6	5	5	5	6	4	1	7	1	3	6	6	4	5	6	6		
4	8	7	8	5	0	8	4	3	5	2	8	8	0	8	9	2	7	8	4	1	4	1	6	0		
4	8	1	5	0	6	9	5	5	0	9	6	8	3	4	2	7	4	7	8	3	3	4	7	8		
<hr/>																										
SPRAGUE-DAWLEY 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	0		
100 MG/KG	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		
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7			
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

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 Page 65

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 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	0	
	7	5	4	5	5	4	5	3	5	2	5	6	3	4	6	2	6	6	5	6	5	7	2	7	6
	0	0	9	3	6	3	6	9	0	2	2	4	6	7	5	7	2	1	0	6	5	1	8	2	3
	1	3	9	9	7	3	0	8	0	5	4	3	5	6	7	4	3	3	3	8	3	6	1	7	4
SPRAGUE-DAWLEY 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	0	0
100 MG/KG	0	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
																									* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																									1 3.0
Intestine Large, Colon Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan									X		X											X			5
Thrombosis																									1 2.0
Intestine Large, Rectum Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																							2		1 2.0
Intestine Small, Duodenum Fibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Necrosis																									1 4.0
																									1 4.0
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver Basophilic Focus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Clear Cell Focus																							X		2
Degeneration, Cystic																									4
																									1 1.0

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 Route: GAVAGE
 Species/Strain: RATS/SD

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3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

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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	0	0	0	* TOTALS
	7	5	4	5	5	4	5	3	5	2	5	6	3	4	6	2	6	6	5	6	5	7	2	7	6		
	0	0	9	3	6	3	6	9	0	2	2	4	6	7	5	7	2	1	0	6	5	1	8	2	3		
	1	3	9	9	7	3	0	8	0	5	4	3	5	6	7	4	3	3	3	8	3	6	1	7	4		
SPRAGUE-DAWLEY 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	0	0		
100 MG/KG	0	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	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		
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9		
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		
Eosinophilic Focus	X					X				X	X						X	X								12	
Fatty Change, Focal														1												3 1.7	
Fatty Change, Diffuse			1	2	3	1	1	1	2			2	2	2		2	2	2	1	2	1	2	2		34 1.6		
Fibrosis				1																			2		4 1.8		
Hematopoietic Cell Proliferation	2	1	1	2		1	1	1	1	1	2	1			2		1	1		1		2	1		30 1.2		
Hyperplasia, Nodular																										3	
Inflammation, Chronic Active	4	1		1			1	1	1	1	1	1	2				1	2	3	1	2	2		1	28 1.4		
Mixed Cell Focus												X														1	
Necrosis	1			2	3					2			2	2			1		1	3		1	1		21 1.8		
Pigmentation														1					1	1						6 1.2	
Toxic Hepatopathy				2								1	1								1					8 1.1	
Bile Duct, Cyst	2																				1					4 1.5	
Bile Duct, Fibrosis				1			1																3			3 1.7	
Bile Duct, Hyperplasia	2			1			2	1			3	2	1			1	2		3	1	2	3		2	29 2.0		
Bile Duct, Metaplasia																										1 1.0	
Centrilobular, Degeneration			2				1		2	2		1	4	1		2	2	2		1	2	1	2			24 1.8	
Centrilobular, Fatty Change																										1 3.0	
Hepatocyte, Hypertrophy					3							2	4	3		4	2				4	3	4	3		22 2.5	
Hepatocyte, Multinucleated			2	1																						3 1.3	
Oval Cell, Hyperplasia					1																			3		5 1.8	
Mesentery																										1	
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Gingival, Hyperplasia, Cystic Keratinizing																	0	0						0		11 0.0	
Gingival, Hyperplasia, Squamous	2		2		3	1	1			1	2	1		1	2			2	1	2	1	1				31 1.8	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy	4										2					2							3	2		10 2.1	
Inflammation			3																							3 3.3	

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TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0																								* TOTALS
	7	5	4	5	5	4	5	3	5	2	5	6	3	4	6	2	6	5	6	5	7	2	7	6	
	0	0	9	3	6	3	6	9	0	2	2	4	6	7	5	7	2	1	0	6	5	1	8	2	3
	1	3	9	9	7	3	0	8	0	5	4	3	5	6	7	4	3	3	3	8	3	6	1	7	4
SPRAGUE-DAWLEY RATS MALE ANIMAL ID 100 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	
	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	

Acinus, Vacuolization Cytoplasmic																									1	2		3		1	1																	
Salivary Glands																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																																																
Fibrosis																																																
Stomach, Forestomach																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																																																
Inflammation																																																
Necrosis																																																
Epithelium, Hyperplasia																									4		3	3	2	2	2	1	2	1	3	4			2	2	2	2	3	4	4	4	1	1
Stomach, Glandular																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineralization																																																
Tooth																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Peridontal Tissue, Inflammation																																																

CARDIOVASCULAR SYSTEM

Blood Vessel																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																									3	1	3	2																				
Mineralization																																																
Heart																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy																									2		2	1			2	1			1	2	1											
Inflammation																																																
Mineralization																																																

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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	0	
	7	5	4	5	5	4	5	3	5	2	5	6	3	4	6	2	6	6	5	6	5	7	2	7	6
	0	0	9	3	6	3	6	9	0	2	2	4	6	7	5	7	2	1	0	6	5	1	8	2	3
	1	3	9	9	7	3	0	8	0	5	4	3	5	6	7	4	3	3	3	8	3	6	1	7	4
SPRAGUE-DAWLEY 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	0	0
100 MG/KG	0	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
																									* TOTALS
Necrosis																									2 2.0
Thrombosis																									4 1.8

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Degeneration				3		3				2			2			1	1		1					9 1.8
Hypertrophy	1								3	2		2				1	1	2	2				1	17 1.4
Necrosis		1		1										2	3		2				2			13 1.8
Vacuolization Cytoplasmic				4									2	2	1	2		1		1	3	2	2	25 1.7
Zona Fasciculata, Hyperplasia	2	3			4				3		1	3		1	3		2		3				1	21 2.2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia	3					3			4														1	6 2.2
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia									2															1 2.0
Parathyroid Gland	M	+	M	M	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	44
Hyperplasia																		2						2 2.0
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Hemorrhage								4																1 4.0
Necrosis																								2 2.0
Pars Distalis, Hyperplasia	3				2													1					2	10 1.7
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibrosis																								1 2.0

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TDMS No. 88148 - 06
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Species/Strain: RATS/SD

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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	0	0
	7	5	4	5	5	4	5	3	5	2	5	6	3	4	6	2	6	6	5	6	5	7	2	7	6
	0	0	9	3	6	3	6	9	0	2	2	4	6	7	5	7	2	1	0	6	5	1	8	2	3
	1	3	9	9	7	3	0	8	0	5	4	3	5	6	7	4	3	3	3	8	3	6	1	7	4
SPRAGUE-DAWLEY 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	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
100 MG/KG	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
																									* TOTALS
Inflammation					3	2								3	3						3	2	2	2	14 2.6
C-cell, Hyperplasia																			3						1 3.0
Follicular Cell, Hyperplasia		2				3							4	4							4	3	4	3	12 3.6
Follicular Cell, Hypertrophy					4																				6 3.2

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Inflammation							3															3				4 3.5	
Metaplasia, Squamous																										1 4.0	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Granuloma Sperm											3															2 3.5	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hyperplasia, Squamous		2																					2			4 1.5	
Inflammation																										1 1.0	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation		1					3								3	1						1	2			16 1.8	
Epithelium, Hyperplasia																										2 1.5	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia											1															2 2.5	

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	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	0		
	7	5	4	5	5	4	5	3	5	2	5	6	3	4	6	2	6	6	5	6	5	7	2	7	6	
	0	0	9	3	6	3	6	9	0	2	2	4	6	7	5	7	2	1	0	6	5	1	8	2	3	
	1	3	9	9	7	3	0	8	0	5	4	3	5	6	7	4	3	3	3	8	3	6	1	7	4	
SPRAGUE-DAWLEY 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	0	0	
100 MG/KG	0	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	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	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS

Inflammation																									2	4	3.0																											
Metaplasia, Squamous																										3	2.7																											
Testes																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Inflammation																																																				3	1	3.0
Necrosis																																																				4	1	3.0
Germinal Epithelium, Degeneration																																																				4	3	2.7
Germinal Epithelium, Mineralization																																																				4	2	2.7
Interstitial Cell, Hyperplasia																																																				1	2	1.3
																																																				1	2	1.0

HEMATOPOIETIC SYSTEM

Bone Marrow																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Atrophy																																																				3	2	2.5	
Hyperplasia																																																				2	1	1	2.2
Necrosis																																																				1	1	1.0	
Lymph Node																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	41				
Deep Cervical, Atrophy																																																							4.0
Deep Cervical, Ectasia																																																							2.0
Mediastinal, Atrophy																																																							4.0
Mediastinal, Ectasia																																																							2.0
Mediastinal, Hemorrhage																																																							1.0
Mediastinal, Hyperplasia, Lymphoid																																																							2.0
Lymph Node, Mandibular																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Atrophy																																																				1	4	7	2.3
Hyperplasia, Lymphoid																																																							2.0
Pigmentation																																																							1.5

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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	0	0	0
		7	5	4	5	5	4	5	3	5	2	5	6	3	4	6	2	6	6	5	6	5	7	2	7	6	
		0	0	9	3	6	3	6	9	0	2	2	4	6	7	5	7	2	1	0	6	5	1	8	2	3	
		1	3	9	9	7	3	0	8	0	5	4	3	5	6	7	4	3	3	3	8	3	6	1	7	4	
SPRAGUE-DAWLEY RATS MALE	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	
100 MG/KG		0	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	2	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
																										* TOTALS	

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy	2																									5
Inflammation, Granulomatous	2																									1
Pigmentation	1		1			1		1	1			2	1	1		1				2			1	1		20
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1		2	1	1	1	2	1	1					3	1	2	2	41
Pigmentation	1	1	1	2	2		1	1		1		1	3	2	1	2				1	1		1			35
Lymphoid Follicle, Atrophy					3							2							3			3				12
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	48
Atrophy	2	4	4	4	4	4	3	3	3	2	1	3		4	3	4	3	4	4	2	3	4	4	4	4	47
Inflammation																										1

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																								2		1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst Epithelial Inclusion					X																	X				4
Inflammation					3					3																2
Ulcer																										1

MUSCULOSKELETAL SYSTEM

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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	0	
	7	5	4	5	5	4	5	3	5	2	5	6	3	4	6	2	6	6	5	6	5	7	2	7	6
	0	0	9	3	6	3	6	9	0	2	2	4	6	7	5	7	2	1	0	6	5	1	8	2	3
	1	3	9	9	7	3	0	8	0	5	4	3	5	6	7	4	3	3	3	8	3	6	1	7	4
SPRAGUE-DAWLEY 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	0	0
100 MG/KG	0	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
																								* TOTALS	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Anterior Chamber, Inflammation																									1 3.0
Cornea, Inflammation																			1						2 2.0
Retina, Atrophy																							3		1 3.0
Retina, Degeneration																						3			2 3.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																									1 2.0

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Mineralization	1		1	1	1	1							1	1					1	1	1	1	2		24 1.1	
Nephropathy	2	1	2	2	2	2	2		3	1	3	2	1	1	2	1	3	2	2	2	1	2	1	1	2	48 2.0
Cortex, Cyst																										2 2.5
Pelvis, Dilatation																										1 2.0
Pelvis, Inflammation																										2 2.0
Pelvis, Transitional Epithelium, Hyperplasia																										1 4.0
Ureter	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Transitional Epithelium, Hyperplasia																										3 2.3
Urethra	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Transitional Epithelium, Hyperplasia																										2 2.0

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 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 2) Mild 4) Marked

TDMS No. 88148 - 06
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
Time Report Requested: 07:37:02
First Dose M/F: 01/29/03 / 01/30/03
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	0	0	0	
	7	5	4	5	5	4	5	3	5	2	5	6	3	4	6	2	6	6	5	6	5	7	2	7	6		
	0	0	9	3	6	3	6	9	0	2	2	4	6	7	5	7	2	1	0	6	5	1	8	2	3		
	1	3	9	9	7	3	0	8	0	5	4	3	5	6	7	4	3	3	3	8	3	6	1	7	4		
.....																											
SPRAGUE-DAWLEY 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	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	0
100 MG/KG	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	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		
																											* TOTALS
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

*** END OF MALE DATA ***

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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 Lab: BAT

DAY ON TEST	0																								
	2	5	7	7	6	7	7	7	4	7	7	7	7	6	5	6	5	7	6	7	7	3	7	6	7
3	4	2	2	7	2	2	2	0	2	2	2	2	1	8	6	4	2	9	2	2	7	2	3	2	
2	0	8	8	4	8	8	8	6	8	7	7	7	4	7	0	8	7	6	7	8	2	8	6	8	

ANIMAL ID	0																									females (cont...)
	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	1	1	1	1	1	1	1	1	1		
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		

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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus														X							X	X	X	X
Clear Cell Focus			X			X	X			X	X	X		X										X
Eosinophilic Focus																								X
Fatty Change, Focal				1																				
Fibrosis																								2
Hematopoietic Cell Proliferation		1	1	1	1			1		2		1	1		1	1	1	1	1	1		1	1	
Hepatodiaphragmatic Nodule																								X
Hyperplasia, Nodular																								X
Inflammation, Chronic Active			1			1	1	1			1		1	1			1	1		1	1	2	1	

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DAY ON TEST	0																								
	2	5	7	7	6	7	7	7	4	7	7	7	7	6	5	6	5	7	6	7	7	3	7	6	7
ANIMAL ID	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
Mixed Cell Focus																									X
Necrosis					4																				
Pigmentation																									
Thrombosis					4																				
Bile Duct, Cyst															1										
Bile Duct, Fibrosis																									
Bile Duct, Hyperplasia										1	1			2					1						
Centrilobular, Degeneration					2																				
Hepatocyte, Hypertrophy		1		3																					
Mesentery																									
Fat, Necrosis					+																				
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
Mineralization																						1			
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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 Lab: BAT

DAY ON TEST	0																								
	2	5	7	7	6	7	7	7	4	7	7	7	7	6	5	6	5	7	6	7	7	3	7	6	7
3	4	2	2	7	2	2	2	0	2	2	2	2	1	8	6	4	2	9	2	2	7	2	3	2	
2	0	8	8	4	8	8	8	6	8	7	7	7	4	7	0	8	7	6	7	8	2	8	6	8	

SPRAGUE-DAWLEY RATS FEMALE 0 MG/KG	ANIMAL ID	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
0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	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	2	3	4	5		

Peridontal Tissue, Inflammation	1										2									
---------------------------------	---	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--

CARDIOVASCULAR SYSTEM

Blood Vessel Inflammation	+																								
Mineralization	1										1														
Heart Cardiomyopathy	+																								
Endocardium, Hyperplasia	2																								

ENDOCRINE SYSTEM

Adrenal Cortex Degeneration	+																								
Hypertrophy	1 1 1 2 1 2 2 3 1 1 3 1 1 1 1 2 3 1 1 1																								
Necrosis	2																								
Vacuolization Cytoplasmic	1																								
Zona Fasciculata, Hyperplasia	1 2 1 1 2 4 1 1 3 2 1 3																								
Adrenal Medulla Hyperplasia	+																								
Islets, Pancreatic	+																								
Parathyroid Gland	+ + M + + + + + + + M + + + + + + + + + + +																								

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DAY ON TEST	0																								
	2	5	7	7	6	7	7	7	4	7	7	7	7	6	5	6	5	7	6	7	7	3	7	6	7
3	4	2	2	7	2	2	2	0	2	2	2	2	1	8	6	4	2	9	2	2	7	2	3	2	
2	0	8	8	4	8	8	8	6	8	7	7	7	4	7	0	8	7	6	7	8	2	8	6	8	

SPRAGUE-DAWLEY RATS FEMALE 0 MG/KG	ANIMAL ID	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
0	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	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		

females
(cont...)

Pituitary Gland Necrosis Pigmentation Pars Distalis, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
				1	2	1			2			1										3		
Thyroid Gland C-cell, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
							4	1						1	1		2					4		

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Clitoral Gland Cyst Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
			2															2		2				
Ovary Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
											2		1				2	2	2					
Oviduct Fibrosis Inflammation Metaplasia, Squamous																								
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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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	0	0	0	0
	2	5	7	7	6	7	7	7	4	7	7	7	7	6	5	6	5	7	6	7	7	3	7	6	7		
	3	4	2	2	7	2	2	2	0	2	2	2	2	1	8	6	4	2	9	2	2	7	2	3	2		
	2	0	8	8	4	8	8	8	6	8	7	7	7	4	7	0	8	7	6	7	8	2	8	6	8		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	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 MG/KG	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	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	2	3	4	5	6	
Inflammation																											
Endometrium, Hyperplasia, Adenomatous																											
Endometrium, Hyperplasia, Cystic								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Endometrium, Metaplasia, Squamous								1	2	1	1	2			1			3		3		3	3	3			
Vagina																											
Epithelium, Atypia Cellular																											
Epithelium, Hyperplasia																											

females (cont...)

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	2	3		4	4			2		4	1		3	3	4	1	3	4		4	1	4	2	3		
Lymph Node																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Plasma Cell																										
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pigmentation																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Spleen																										
Hematopoietic Cell Proliferation	1	2	1	1	3		1	2		4		2	2	1	3	2	2			3	2	4	2	1	2	
Pigmentation	1		1			1		1	1		1	1		1	1	1	1				2		1	1	1	
Lymphoid Follicle, Atrophy														1							1					

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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	0	
	2	5	7	7	6	7	7	7	4	7	7	7	7	6	5	6	5	7	6	7	7	3	7	6	7
	3	4	2	2	7	2	2	2	0	2	2	2	2	1	8	6	4	2	9	2	2	7	2	3	2
	2	0	8	8	4	8	8	8	6	8	7	7	7	4	7	0	8	7	6	7	8	2	8	6	8
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	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
0 MG/KG	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
ANIMAL ID	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females (cont...)

Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy			1	3	3	2	3	2	3	3	4	3	3	4	3	3	3	3	3	3	3	3	3	3	2
Hyperplasia, Lymphoid																									

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Galactocele		2																						4	
Hyperplasia					2					2															
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																									+

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral Nerve																									+
Spinal Cord																									+

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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	0	0	0
	2	5	7	7	6	7	7	7	4	7	7	7	7	6	5	6	5	7	6	7	7	3	7	6	7	
	3	4	2	2	7	2	2	2	0	2	2	2	2	1	8	6	4	2	9	2	2	7	2	3	2	
	2	0	8	8	4	8	8	8	6	8	7	7	7	4	7	0	8	7	6	7	8	2	8	6	8	
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	
0 MG/KG	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	
ANIMAL ID	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

females (cont...)

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Congestion															3											
Inflammation, Suppurative																										
Inflammation, Chronic Active			1		2															1						
Metaplasia, Cartilagenous										1																
Necrosis																										
Pigmentation																										
Alveolar Epithelium, Hyperplasia					1														3							
Alveolar Epithelium, Metaplasia, Squamous																									2	
Alveolus, Infiltration Cellular, Histiocyte		1	1	2	1			1		2	2	2					1	1	3	1	2	1		2	2	3
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation																										
Retina, Degeneration																									1	1
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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 2) Mild 4) Marked
 Page 82

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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	0	0
	2	5	7	7	6	7	7	7	4	7	7	7	7	6	5	6	5	7	6	7	7	3	7	6	7
	3	4	2	2	7	2	2	2	0	2	2	2	2	1	8	6	4	2	9	2	2	7	2	3	2
	2	0	8	8	4	8	8	8	6	8	7	7	7	4	7	0	8	7	6	7	8	2	8	6	8
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	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
0 MG/KG	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	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females (cont...)

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Casts	1																							
Mineralization			1	1	1	1	2	1	1			1		1		1	1			1	1			1
Nephropathy		1	1	1	2	1	1	1		1		1	1		1	2		2			1	1	2	2
Pelvis, Inflammation																				2				
Pelvis, Transitional Epithelium, Hyperplasia																				2				
Renal Tubule, Hyperplasia, Atypical					1																			
Urethra	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Transitional Epithelium, Hyperplasia																					2			

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TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

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 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0																								* TOTALS
	7	7	7	7	6	7	7	5	7	5	5	7	5	5	6	7	7	4	7	7	7	7	4	6	
ANIMAL ID	0																								* TOTALS
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Mixed Cell Focus	X		X			X																X	X	6	
Necrosis								2						2										3 2.7	
Pigmentation																			3					1 3.0	
Thrombosis																								1 4.0	
Bile Duct, Cyst	1																						2	3 1.3	
Bile Duct, Fibrosis																					1			1 1.0	
Bile Duct, Hyperplasia	1	1		1			1					1		1						1	1			12 1.1	
Centrilobular, Degeneration																								1 2.0	
Hepatocyte, Hypertrophy							1			1														4 1.5	
Mesentery																					+	+		3	
Fat, Necrosis																						3		1 3.0	
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation														1										1 1.0	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy										2														1 2.0	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																								1 1.0	
Mineralization																								2 1.0	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																					1			1 1.0	
Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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TDMS No. 88148 - 06
 Test Type: CHRONIC
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 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

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 Lab: BAT

DAY ON TEST	0																								* TOTALS	
	0	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	6	7	7	5	7	5	5	7	5	5	6	7	7	4	7	7	7	7	4	6		
	2	0	2	2	7	2	2	9	2	4	7	2	6	0	8	8	0	2	8	2	1	2	2	7	4	
	8	0	8	8	4	7	7	5	8	8	5	7	0	4	8	4	6	7	3	8	2	8	8	8	9	
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
0 MG/KG	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Peridontal Tissue, Inflammation						1							1				1									5 1.2

CARDIOVASCULAR SYSTEM

Blood Vessel Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 1.0
Mineralization																											2 1.0
Heart Cardiomyopathy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	12 1.0
Endocardium, Hyperplasia		1	1			1						1							1		1						2 1.5

ENDOCRINE SYSTEM

Adrenal Cortex Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	13 1.5
Hypertrophy																											41 1.5
Necrosis																											1 2.0
Vacuolization Cytoplasmic																											7 1.3
Zona Fasciculata, Hyperplasia																											14 1.6
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	11 1.8
	1			2								1				4					2		1				
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	

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 Page 86

TDMS No. 88148 - 06
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3,3',4,4'-Tetrachloroazobenzene
CAS Number: 14047-09-7

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First Dose M/F: 01/29/03 / 01/30/03
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	0	0	
DAY ON TEST	7	7	7	7	6	7	7	5	7	5	5	7	5	5	6	7	7	4	7	7	7	7	4	6		
	2	0	2	2	7	2	2	9	2	4	7	2	6	0	8	8	0	2	8	2	1	2	2	7	4	
	8	0	8	8	4	7	7	5	8	8	5	7	0	4	8	4	6	7	3	8	2	8	8	8	9	
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	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 MG/KG	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Necrosis																										1	1 1.0
Pigmentation																										1	1 1.0
Pars Distalis, Hyperplasia			1			1	1		1	2		2	1		2	1	1		2	3	1	2				20 1.6	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
C-cell, Hyperplasia	1					1			2	1			1								1					12 1.7	

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst					2										4		2								1	5 2.2
Inflammation												2														3 2.0
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst	1	2	3	1										3									1	1		12 1.8
Oviduct																									2	
Fibrosis																										1 4.0
Inflammation																										2 3.5
Metaplasia, Squamous																										1 3.0
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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TDMS No. 88148 - 06
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 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008

Time Report Requested: 07:37:02

First Dose M/F: 01/29/03 / 01/30/03

Lab: BAT

DAY ON TEST	0																								* TOTALS	
	7	7	7	7	6	7	7	5	7	5	5	7	5	5	6	7	7	4	7	7	7	7	4	6		
	2	0	2	2	7	2	2	9	2	4	7	2	6	0	8	8	0	2	8	2	1	2	2	7	4	
	8	0	8	8	4	7	7	5	8	8	5	7	0	4	8	4	6	7	3	8	2	8	8	8	9	
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	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	
0 MG/KG	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Inflammation	2																									4 2.3
Endometrium, Hyperplasia, Adenomatous																										1 4.0
Endometrium, Hyperplasia, Cystic	2					1	1		4									4				2				15 2.3
Endometrium, Metaplasia, Squamous	4			4					4	3				3				4	3		3			4		20 2.8
Vagina																										+ 2
Epithelium, Atypia Cellular																										2 1 2.0
Epithelium, Hyperplasia																										2 2 2.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia	1	3	2		4	4	3	4	4	4	1		4	4	4	4			4	2				3	4	36 3.1
Lymph Node																										1
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Plasma Cell																										1 3.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pigmentation							1		1			1							1		1					14 1.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Accessory Spleen																										1
Hematopoietic Cell Proliferation	2	3	2	2	4	1	2	4	2	3	3	2	3	3	3	3		2		2		2	2	4	41 2.3	
Pigmentation	2	1	1			1	2			1	1	1			1	1	1	1	2	2		1	1		31 1.2	
Lymphoid Follicle, Atrophy					2																					3 1.3

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 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

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 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	0	0	0	0
	7	7	7	7	6	7	7	5	7	5	5	7	5	5	6	7	7	4	7	7	7	7	4	6			
	2	0	2	2	7	2	2	9	2	4	7	2	6	0	8	8	0	2	8	2	1	2	2	7	4		
	8	0	8	8	4	7	7	5	8	8	5	7	0	4	8	4	6	7	3	8	2	8	8	8	9		
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	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	2
0 MG/KG	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5		
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		* TOTALS

Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy	2	3	3	2	3	3	1	3	3	3	4	1	3	2	3	4	4	1	4	2	4	3		2	4		47 2.8
Hyperplasia, Lymphoid																							3				1 3.0

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Galactocele																	3										3 3.0
Hyperplasia														2										1			4 1.8
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Skeletal Muscle																												2

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Peripheral Nerve																												2
Spinal Cord																												1

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 + .. 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
 Page 89

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0 0																								* TOTALS
	7	7	7	7	6	7	7	5	7	5	5	7	5	5	6	7	7	4	7	7	7	7	4	6	
.....																									
SPRAGUE-DAWLEY RATS FEMALE 0 MG/KG	0 0																								* TOTALS
	ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

RESPIRATORY SYSTEM

Lung	+ +																								50	
Congestion																									1 3.0	
Inflammation, Suppurative																									1 3.0	
Inflammation, Chronic Active																									4 1.3	
Metaplasia, Cartilagenous																									1 1.0	
Necrosis																									1 2.0	
Pigmentation																									1 1.0	
Alveolar Epithelium, Hyperplasia	1																									5 1.6
Alveolar Epithelium, Metaplasia, Squamous																									2 1.5	
Alveolus, Infiltration Cellular, Histiocyte	1	2	2	2	2	1	2	1	2	1	2	2	1	1	1	2	1						3	1	36	1.6
Nose	+ +																								50	
Trachea	+ +																								50	

SPECIAL SENSES SYSTEM

Eye	+ +																								50
Cornea, Inflammation																									2 1.0
Retina, Degeneration																									1 2.0
Harderian Gland	+ +																								50

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 Page 90

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

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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	0	0	0	0	0	0
DAY ON TEST	7	7	7	7	6	7	7	5	7	5	5	7	5	5	6	7	7	4	7	7	7	7	4	6				
	2	0	2	2	7	2	2	9	2	4	7	2	6	0	8	8	0	2	8	2	1	2	2	7	4			
	8	0	8	8	4	7	7	5	8	8	5	7	0	4	8	4	6	7	3	8	2	8	8	8	9			
.....																												
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	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	2	2
0 MG/KG	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5			
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0			
	* TOTALS																											

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Casts																												1 1.0
Mineralization	1	1	1	1	1		1	1	1			1	1	1		1	1	1	2	1	1	1	1	1	1	1	1	36 1.1
Nephropathy	1	1	1	1		1	1		2				1			1	1			1		1	1					30 1.2
Pelvis, Inflammation																												1 2.0
Pelvis, Transitional Epithelium, Hyperplasia																												1 2.0
Renal Tubule, Hyperplasia, Atypical																												1 1.0
.....																												
Urethra	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
.....																												
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Transitional Epithelium, Hyperplasia																												1 2.0

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TDMS No. 88148 - 06
 Test Type: CHRONIC
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 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	Animals																								
	0728	0728	0750	0750	0755	0777	0777	0777	0713	0733	0777	0777	0777	0755	0755	0777	0777	0777	0755	0777	0777	0777	0777	0777	0777
0	0	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	5	5	5	7	7	7	1	3	7	7	7	5	5	7	7	7	5	7	7	7	7	7	7	2
2	2	6	8	2	2	2	2	5	6	2	2	2	5	8	2	2	2	8	2	2	2	2	2	7	
8	8	0	7	7	7	7	8	3	6	8	8	7	3	9	7	7	7	7	7	7	8	7	8	1	
.....																									
SPRAGUE-DAWLEY RATS FEMALE 10 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	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
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
ANIMAL ID	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
females (cont...)																									

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis														1									1	1	
Basophilic Focus				X	X		X								X		X					X	X		
Cholangiofibrosis																									
Clear Cell Focus	X	X	X			X					X	X					X	X			X	X	X	X	
Degeneration, Cystic	1																								
Eosinophilic Focus		X	X	X			X	X			X	X	X		X	X	X	X	X	X			X		
Fatty Change, Focal																									
Fatty Change, Diffuse	1																								
Hematopoietic Cell Proliferation	1	1	1	1		2	1	1			1	1	1	1		1	2	1	1	2	1	1	1	1	

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TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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	0	0
	7	7	5	5	5	7	7	7	1	3	7	7	7	5	5	7	7	7	5	7	7	7	7	7	2
	2	2	6	8	2	2	2	2	5	6	2	2	2	5	8	2	2	2	8	2	2	2	2	2	7
	8	8	0	7	7	7	7	8	3	6	8	8	7	3	9	7	7	7	7	7	7	8	7	8	1
SPRAGUE-DAWLEY RATS FEMALE 10 MG/KG	0	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
	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
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
Hyperplasia, Nodular	X																								
Inflammation, Chronic Active		1	1	1	1						1	1		1		1		1	1	1	1			1	
Mixed Cell Focus	X					X	X	X		X	X				X	X			X	X	X				
Necrosis					1														1						
Pigmentation		2		1	2		2			2		1	1					1		1			1		
Toxic Hepatopathy																		1					1		
Bile Duct, Cyst	1																								
Bile Duct, Fibrosis	1																								
Bile Duct, Hyperplasia	1	1			1		1	1		2	1	1		1	1		1		1	1	1			1	
Centrilobular, Degeneration					1																				
Hepatocyte, Hypertrophy	2	2	2	1		2	1	3		3	3	2	1		2	3	1		2	2	1	1	1		
Hepatocyte, Multinucleated					1																				
Oval Cell, Hyperplasia		1																							
Serosa, Fibrosis													1												
Mesentery																									
Fat, Necrosis																									
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gingival, Hyperplasia, Cystic Keratinizing									0																
Gingival, Hyperplasia, Squamous	1				2										2	2								2	
Pancreas	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy				1				2										1		1	1		1		
Inflammation	1																								
Acinus, Vacuolization Cytoplasmic	1	1			1	3		2		1	2	3			1	4	2		1		3	3	1	1	
Salivary Glands	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																									
Fibrosis																									

females
(cont...)

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TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
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 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	Animals																								
	0	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	5	5	5	7	7	7	1	3	7	7	7	5	5	7	7	7	5	7	7	7	7	7	2	
2	2	6	8	2	2	2	2	5	6	2	2	2	5	8	2	2	2	8	2	2	2	2	2	7	
8	8	0	7	7	7	7	8	3	6	8	8	7	3	9	7	7	7	7	7	7	8	7	8	1	

SPRAGUE-DAWLEY RATS FEMALE 10 MG/KG	ANIMAL ID	Animals																									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	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	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		
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		

Stomach, Forestomach Inflammation	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization						2																		
Epithelium, Hyperplasia	2	1		2	2	3	1	2			1	4	2		1	1		1		3	1	2	1	1
Stomach, Glandular Mineralization	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth Peridontal Tissue, Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
			1		1		1				2					1	1							

CARDIOVASCULAR SYSTEM

Blood Vessel Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization						2							3			1				1				
Heart Cardiomyopathy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2											1	1	1			1						1	

ENDOCRINE SYSTEM

Adrenal Cortex Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration	2				2	2					2		1				1	2						
Hypertrophy	1	1	3	1		3	2				1	1	2	1		1	1	1		1	3	1		

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 I .. Insufficient tissue
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TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008

Time Report Requested: 07:37:02

First Dose M/F: 01/29/03 / 01/30/03

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	0	0	0
	7	7	5	5	5	7	7	7	1	3	7	7	7	5	5	7	7	7	5	7	7	7	7	7	7	2
	2	2	6	8	2	2	2	2	5	6	2	2	2	5	8	2	2	2	8	2	2	2	2	2	2	7
	8	8	0	7	7	7	7	8	3	6	8	8	7	3	9	7	7	7	7	7	7	8	7	8	1	

SPRAGUE-DAWLEY RATS FEMALE	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
		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
		5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females
(cont...)

Thrombosis										1																
Vacuolization Cytoplasmic	2				1		2								1		1	2			1	1	1	2		
Zona Fasciculata, Hyperplasia		1	2	1				3	3			2						1		2	4	1		3		
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	M	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland Pars Distalis, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thyroid Gland C-cell, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Follicle, Cyst	1																									
Follicular Cell, Hyperplasia																										
Follicular Cell, Hypertrophy																										

GENERAL BODY SYSTEM

Peritoneum

GENITAL SYSTEM

Clitoral Gland

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 + .. Tissue examined microscopically
 x .. Lesion present
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TDMS No. 88148 - 06
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 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	0	
	7	7	5	5	5	7	7	7	1	3	7	7	7	5	5	7	7	7	5	7	7	7	7	2	
	2	2	6	8	2	2	2	2	5	6	2	2	2	5	8	2	2	2	8	2	2	2	2	7	
	8	8	0	7	7	7	7	8	3	6	8	8	7	3	9	7	7	7	7	7	8	7	8	1	
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FEMALE	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	
10 MG/KG	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
ANIMAL ID	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females
(cont...)

Cyst																								2			
Hyperplasia, Squamous																											
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Cyst																								3			
Inflammation																								4			
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Angiectasis																											
Inflammation																								4			
Endometrium, Hyperplasia, Cystic																								1			
Endometrium, Metaplasia, Squamous																								4			
					4			3	3			1	3	4	2			4	3	3			1			3	1
Vagina																								+			
Epithelium, Hyperplasia																								2			

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																								1
																								4
																								3
																								4
																								4
																								2
																								3
																								2
																								3
																								4
																								2
																								4
																								2
																								1
																								3
																								3
																								1
																								1
																								1
																								1
																								1
																								1
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation																								1
																								2
																								2
																								2
																								3
																								2
																								2
																								2
																								2
																								2
																								2
																								2
																								2
																								2
																								2
																								2
																								2

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

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	Animals																								
	0728	0728	0750	0755	0755	0777	0777	0777	0713	0737	0777	0777	0755	0755	0777	0777	0755	0777	0777	0757	0777	0777	0778	0778	0700
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 MG/KG	0	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	22551	22552	22553	22554	22555	22556	22557	22558	22559	22560	22561	22562	22563	22564	22565	22566	22567	22568	22569	22570	22571	22572	22573	22574	22575

females (cont...)

Necrosis, Fibrinoid Pigmentation	2	2	1	1	2		2	1	2	3	2	1	1	2	2	1	1	1	1	1	2		2	1	2
Lymphoid Follicle, Atrophy					2				2					3											
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	3	4	3	4	4	4	4	4	1	3	4	4	3	3	3	4	3	4	4	4	3	4	4	4	3

INTEGUMENTARY SYSTEM

Mammary Gland Dilatation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia			2		1													1		1	2	1			
Pigmentation																									
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle Inflammation																									

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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 Page 97

TDMS No. 88148 - 06
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
3,3',4,4'-Tetrachloroazobenzene
CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
Time Report Requested: 07:37:02
First Dose M/F: 01/29/03 / 01/30/03
Lab: BAT

DAY ON TEST	0 0																							
	7 7 5 5 5 7 7 7 1 3 7 7 7 5 5 7 7 7 5 7 7 7 7 2																							
ANIMAL ID	2 2 6 8 2 2 2 2 5 6 2 2 2 5 8 2 2 2 8 2 2 2 2 7																							
	8 8 0 7 7 7 7 8 3 6 8 8 7 3 9 7 7 7 7 7 7 8 7 8 1																							
SPRAGUE-DAWLEY RATS FEMALE 10 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

females
(cont...)

Peripheral Nerve

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active Necrosis																				1	1	1		
Pigmentation	1									1											1	1	1	
Alveolar Epithelium, Hyperplasia																								
Alveolar Epithelium, Metaplasia, Bronchiolar			1			1	3	2			2	1	1	1	1						1		2	
Alveolar Epithelium, Metaplasia, Squamous															4						1			
Alveolus, Infiltration Cellular, Histiocyte		1			1	3	2	1			1		1	2	2						3		1	1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation							1	1	1													1		1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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TDMS No. 88148 - 06
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 CAS Number: 14047-09-7

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 First Dose M/F: 01/29/03 / 01/30/03
 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	0	
	7	7	5	5	5	7	7	7	1	3	7	7	7	5	5	7	7	7	5	7	7	7	7	2	
	2	2	6	8	2	2	2	2	5	6	2	2	2	5	8	2	2	2	8	2	2	2	2	7	
	8	8	0	7	7	7	7	8	3	6	8	8	7	3	9	7	7	7	7	7	7	8	7	1	
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FEMALE	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	
10 MG/KG	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
ANIMAL ID	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females
(cont...)

Zymbal's Gland +

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accumulation, Hyaline Droplet							1												1						
Infarct																									
Inflammation, Diffuse																									
Mineralization	1			1		1	1	1		1	1	1	1	1		1	1	1	1		1		1	1	
Nephropathy	1	1		1	1	4	2	1			1	1	2			1		1	1	2	1	2	3	1	1
Cortex, Cyst						2																			
Pelvis, Inflammation															1										
Pelvis, Transitional Epithelium, Hyperplasia																									
Urethra	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
Transitional Epithelium, Hyperplasia																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
Metaplasia, Squamous																									

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 Page 99

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	0	
	6	7	7	5	7	5	7	7	6	5	3	7	7	3	7	7	7	4	7	7	7	7	7	4	7
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	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
10 MG/KG	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
* TOTALS																									

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan																		X							2
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																							1		4 1.0
Basophilic Focus					X			X								X									10
Cholangiofibrosis																								1	1 1.0
Clear Cell Focus					X		X	X				X	X		X				X	X		X	X		22
Degeneration, Cystic																									2 1.0
Eosinophilic Focus				X	X	X		X	X	X		X	X	X		X		X	X						27
Fatty Change, Focal																									2 1.0
Fatty Change, Diffuse											1												1		3 1.0
Hematopoietic Cell Proliferation	1	1	1	1	1	2	1	1		1		1	1	1	1	1	1	1	1	1	1	1	1	1	42 1.1

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TDMS No. 88148 - 06
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 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

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 First Dose M/F: 01/29/03 / 01/30/03
 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	0	0			
DAY ON TEST	6	7	7	5	7	5	7	7	6	5	3	7	7	3	7	7	7	4	7	7	7	7	7	4	7			
	0	2	2	8	2	1	2	2	2	4	0	2	2	3	2	2	0	6	2	2	2	2	2	6	2			
	6	8	7	9	8	0	7	7	1	4	9	7	8	5	7	8	5	0	7	7	7	2	8	0	7			
SPRAGUE-DAWLEY RATS																												
FEMALE																												
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		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3			
10 MG/KG	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0			
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS		
Hyperplasia, Nodular			X														X									3		
Inflammation, Chronic Active	2	1	2				1	1				1	1	1	1		1	1	1		1	1	1			29 1.1		
Mixed Cell Focus							X	X				X						X					X			16		
Necrosis	2		1						2	2																6 1.5		
Pigmentation				1	1	1						1							1				1	1		17 1.2		
Toxic Hepatopathy			1															1								4 1.0		
Bile Duct, Cyst		1			3														2							4 1.8		
Bile Duct, Fibrosis																										1 1.0		
Bile Duct, Hyperplasia		2	2		2		1		1	1			1	2					1		1			1		26 1.2		
Centrilobular, Degeneration			1																							2 1.0		
Hepatocyte, Hypertrophy		2			3		2		2			1	2	2	1		3	2	2	2	1	1				33 1.8		
Hepatocyte, Multinucleated								1																		2 1.0		
Oval Cell, Hyperplasia			1		1		1		1									1					1			7 1.0		
Serosa, Fibrosis																										1 1.0		
Mesentery																										+		
Fat, Necrosis																										3		
Oral Mucosa																										+		
Gingival, Hyperplasia, Cystic Keratinizing																										0		
Gingival, Hyperplasia, Squamous																										1		
Pancreas																										+		
Atrophy																										1		
Inflammation																										1 1.0		
Acinus, Vacuolization Cytoplasmic																										1		
Salivary Glands																										+		
Atrophy																										+		
Fibrosis																										2		

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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	0	* TOTALS	
	6	7	7	5	7	5	7	7	6	5	3	7	7	3	7	7	7	4	7	7	7	7	4	7		
	0	2	2	8	2	1	2	2	2	4	0	2	2	3	2	2	0	6	2	2	2	2	2	6	2	
	6	8	7	9	8	0	7	7	1	4	9	7	8	5	7	8	5	0	7	7	7	2	8	0	7	
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	3	
ANIMAL ID	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
10 MG/KG	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Inflammation				1			3																			3 2.0
Mineralization							2										1									2 1.5
Epithelium, Hyperplasia		3	1	2	1	1	3					1	1				2		2	3	1	1	1			32 1.7
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Mineralization																	1									1 1.0
Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Peridontal Tissue, Inflammation			2									1											1	1		10 1.2

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation			2									2	1	1				3		3						10 1.9
Mineralization																1										1 1.0
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy		1							1				1	1	1		1		1	1	1		1			16 1.1

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																							3			1 3.0
Degeneration			2											1							2	2	1			12 1.7
Hypertrophy			1		1			1	1			1		2	1	1	1	1	1	2		2	1	3		31 1.4

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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	0	0	0
	6	7	7	5	7	5	7	7	6	5	3	7	7	3	7	7	7	4	7	7	7	7	7	4	7	7
	0	2	2	8	2	1	2	2	2	4	0	2	2	3	2	2	0	6	2	2	2	2	2	6	2	2
	6	8	7	9	8	0	7	7	1	4	9	7	8	5	7	8	5	0	7	7	7	2	8	0	7	7
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	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	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	3
10 MG/KG	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS

Thrombosis																										1	1.0
Vacuolization Cytoplasmic	3					1	2						1								1	2				16	1.5
Zona Fasciculata, Hyperplasia						1	3					1		4		2					1	1	1	1		20	1.9

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia												1						4		2						5	2.2

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
--------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----	--

Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	46	
-------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----	--

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Hyperplasia						2						1	1		1								2	2		13	1.8

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
C-cell, Hyperplasia				4																				1		5	2.2
Follicle, Cyst												2			2											1	2.0
Follicular Cell, Hyperplasia												2														1	2.0
Follicular Cell, Hypertrophy					2																					1	2.0

GENERAL BODY SYSTEM

Peritoneum																											1	
------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----	--

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+ .. Tissue examined microscopically
x .. Lesion present
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M .. Missing tissue
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Page 103

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	0	0	0	0	0	0	0
ANIMAL ID	6	7	7	5	7	5	7	7	6	5	3	7	7	3	7	7	7	4	7	7	7	7	7	4	7	7	4	7	6	2
	0	2	2	8	2	1	2	2	2	4	0	2	2	3	2	2	0	6	2	2	2	2	2	2	2	6	2	6	2	
	6	8	7	9	8	0	7	7	1	4	9	7	8	5	7	8	5	0	7	7	7	2	8	0	7	0	0	0	0	
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	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	2	2	3	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	0	0	
10 MG/KG	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	0	0	0	0	
	* TOTALS																													

Necrosis, Fibrinoid																															1	2.0
Pigmentation	1	1	1	2	2	2	1	2		1	1	1	2		1	1		1	1	2	2	1	1	2						44	1.5	
Lymphoid Follicle, Atrophy																															4	2.3

Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy	4	3	3	4	4	3	4	4	4	4	4	4	4	3	4	4	4	3	4	4	4		4	3	4					49	3.6

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Dilatation																																2
Hyperplasia			1	3										4																	11	1.6
Pigmentation																															4	1.4

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----------

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Skeletal Muscle																																
Inflammation																																1
																																4
																																1
																																1
																																4
																																1
																																4
																																1
																																4
																																1
																																4
																																1

NERVOUS SYSTEM

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

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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	0	0	0
SPRAGUE-DAWLEY RATS FEMALE 10 MG/KG	ANIMAL ID	6	7	7	5	7	5	7	7	6	5	3	7	7	3	7	7	7	4	7	7	7	7	7	4	7	
		0	2	2	8	2	1	2	2	2	4	0	2	2	3	2	2	0	6	2	2	2	2	2	6	2	
		6	8	7	9	8	0	7	7	1	4	9	7	8	5	7	8	5	0	7	7	7	2	8	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	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	3	
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
																								* TOTALS			

Peripheral Nerve

+

1

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Chronic Active																										5
Necrosis																										1
Pigmentation		1										1												1	1	1
Alveolar Epithelium, Hyperplasia														1												1
Alveolar Epithelium, Metaplasia, Bronchiolar		2		2			1	1				1	2	1	1			1							1	
Alveolar Epithelium, Metaplasia, Squamous		1												4												
Alveolus, Infiltration Cellular, Histiocyte		2	1					2				1	2		2			1		1		2	1		23	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation				1								2														7
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0 0																								* TOTALS
	6 7 7 5 7 5 7 7 6 5 3 7 7 3 7 7 7 4 7 7 7 7 4 7																								
ANIMAL ID	0 0																								* TOTALS
	2 3																								
SPRAGUE-DAWLEY RATS FEMALE																									
10 MG/KG																									
Zymbal's Gland																									1

URINARY SYSTEM

Kidney	+ +																								50		
Accumulation, Hyaline Droplet																									2	1.0	
Infarct																									4	1	4.0
Inflammation, Diffuse																									4	1	4.0
Mineralization	1 1																								32	1.0	
Nephropathy	2 2 1 1 1 1 1 1 1 1 2 2 2 1 2 1 1 1 1 2 1 3																								39	1.5	
Cortex, Cyst																									1	2.0	
Pelvis, Inflammation																									2	1.5	
Pelvis, Transitional Epithelium, Hyperplasia																									2	1	2.0
Urethra	+ +																								50		
Inflammation																									2	1	2.0
Transitional Epithelium, Hyperplasia																									1	1	1.0
Urinary Bladder	+ +																								50		
Inflammation																									2	1	2.0
Metaplasia, Squamous																									3	1	3.0

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 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0																												
	7																												
	2					6					4					8					1								
	7					8					0					7					2					9			
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
30 MG/KG	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			
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			
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6			

females
(cont...)

ALIMENTARY SYSTEM

Esophagus	+																																											
Intestine Large, Cecum	+																																											
Intestine Large, Colon	+																																											
Intestine Large, Rectum	+																																											
Intestine Small, Duodenum	+																																											
Intestine Small, Ileum	+																																											
Intestine Small, Jejunum	+																																											
Liver	+																																											
Angiectasis											1		1																															
Basophilic Focus																																												
Clear Cell Focus																																												
Degeneration, Cystic																																												
Eosinophilic Focus	X				X				X		X		X				X		X		X		X		X		X																	
Fatty Change, Focal											1																																	
Fatty Change, Diffuse																																												
Fibrosis																																												
Hematopoietic Cell Proliferation	2		1		1		1		1		1		1		1		1		1		1		1		1		1																	
Hepatodiaphragmatic Nodule																																												

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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	0	
	7	7	7	5	6	5	5	6	2	7	7	7	7	7	2	7	6	7	7	6	6	7	7	5	7
	2	2	2	6	6	4	8	1	2	2	2	2	2	2	7	2	3	2	2	1	4	2	1	2	2
	7	8	8	0	8	0	7	2	9	8	7	8	8	8	3	7	4	7	7	5	9	7	6	5	7
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30 MG/KG	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	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	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
Hyperplasia, Nodular	X																								
Inflammation, Chronic Active	1	1				1			1	1	1		1	1	1		1	2	1	1				1	
Mixed Cell Focus		X	X							X	X		X	X		X		X						X	
Necrosis					2			2											2						
Pigmentation			1		1		3	1				1	1	1		1		1			2	1	2	2	
Thrombosis																									
Toxic Hepatopathy	1		1							1								1			1	1			
Bile Duct, Cyst												1		2	2										
Bile Duct, Fibrosis												1													
Bile Duct, Hyperplasia	2	1			1			2	1	1	1	1	2			1		1	2	1		1	2	1	
Centrilobular, Degeneration					3			2											3			2			
Hepatocyte, Hypertrophy	2	2	1	2	4	2		1			2	2	3	2	1	3	2	3	2		3	2		2	
Hepatocyte, Multinucleated																								1	
Oval Cell, Hyperplasia	1	1			1		1	1				2	1	1		1		1		1		2	1	1	
Mesentery																									
Thrombosis																									
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gingival, Hyperplasia, Cystic Keratinizing					0									0				0	0					0	
Gingival, Hyperplasia, Squamous		1		1	2						1	2	1			2		3	3	2				1	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy			2							1		1	1	4				1	1		1				
Inflammation	3													2											
Acinus, Hyperplasia																									
Acinus, Vacuolization Cytoplasmic	2	1			3	3	1	1	2	2	1	1	2			2	4	2	2	2	2	1	3	2	
Duct, Atypia Cellular														2											
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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 Page 109

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	0	
	7	7	7	5	6	5	5	6	2	7	7	7	7	7	2	7	6	7	7	6	6	7	7	5	7
	2	2	2	6	6	4	8	1	2	2	2	2	2	2	7	2	3	2	2	1	4	2	1	2	2
	7	8	8	0	8	0	7	2	9	8	7	8	8	8	3	7	4	7	7	5	9	7	6	5	7
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FEMALE	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	
30 MG/KG	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	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	2	3	4	5

females (cont...)

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation								1											3						
Mineralization																									
Necrosis								2										1							
Epithelium, Hyperplasia	3	3	1	1	3	4	1	2		3	3	4	3	3		2	2	1	1	4	1	3	2	1	3
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineralization																									
Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Peridental Tissue, Inflammation									1	1	2				1		1	1	1		1				

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	4	1			2												3							1
Mineralization					1																			
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy					1	1						1	1							1		1		
Inflammation																			3					
Mineralization																								
Necrosis																			3					
Thrombosis																								2

ENDOCRINE SYSTEM

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I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
Page 110

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

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0 0																								
	7 7 7 5 6 5 5 6 2 7 7 7 7 2 7 6 7 7 6 6 7 7 5 7																								
2 2 2 6 6 4 8 1 2 2 2 2 2 2 7 2 3 2 2 1 4 2 1 2 2																									
7 8 8 0 8 0 7 2 9 8 7 8 8 8 3 7 4 7 7 5 9 7 6 5 7																									
SPRAGUE-DAWLEY RATS FEMALE 30 MG/KG	0 0																								
	0 0																								
ANIMAL ID	3 3																								
	1 2 3 4 5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1																								
females (cont...)																									
Adrenal Cortex	+ +																								
Atrophy																									
Degeneration	3 1 1 4 1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																								
Hypertrophy	4 1 2 2 2 2 2 2 2 1 1 2 3 1 2 1 1																								
Necrosis	1																								
Thrombosis	1																								
Vacuolization Cytoplasmic	1 2 1																								
Zona Fasciculata, Hyperplasia	1 4 1 1 2 2 2 2 3 2 1 3 1 4																								
Adrenal Medulla	+ +																								
Hyperplasia	1 1																								
Islets, Pancreatic	+ +																								
Parathyroid Gland	+ M + + + + +																								
Pituitary Gland	+ +																								
Necrosis	2 1 4 2 3 1 1 1 1																								
Pars Distalis, Hyperplasia	1 4 2 3 1 1 1																								
Pars Intermedia, Hyperplasia	1																								
Thyroid Gland	+ +																								
Inflammation	3																								
C-cell, Hyperplasia	1																								
Follicular Cell, Hyperplasia	1 4																								
Follicular Cell, Hypertrophy	1 2																								

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DAY ON TEST	0																								
	7	7	7	5	6	5	5	6	2	7	7	7	7	7	2	7	6	7	7	6	6	7	7	5	7
2	2	2	6	6	4	8	1	2	2	2	2	2	2	7	2	3	2	2	1	4	2	1	2	2	
7	8	8	0	8	0	7	2	9	8	7	8	8	8	3	7	4	7	7	5	9	7	6	5	7	

SPRAGUE-DAWLEY RATS FEMALE 30 MG/KG ANIMAL ID	0																									females (cont...)
	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	
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		

GENERAL BODY SYSTEM

Peritoneum

GENITAL SYSTEM

Clitoral Gland	+																								
Cyst	2 2																								
Hyperplasia, Squamous	2																								
Ovary	+																								
Cyst	2 2 1 2 2																								
Inflammation	4 2 2 1																								
Oviduct	+																								
Cyst	2 2																								
Inflammation	2 2																								
Uterus	+																								
Angiectasis	2																								
Hemorrhage	3																								
Inflammation	3																								
Endometrium, Hyperplasia, Cystic	2 2 1 1 3																								
Endometrium, Metaplasia, Squamous	4 2 1 3 3 3 3 3 2																								

HEMATOPOIETIC SYSTEM

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DAY ON TEST	0																								
	7	7	7	5	6	5	5	6	2	7	7	7	7	7	2	7	6	7	7	6	6	7	7	5	7
2	2	2	6	6	4	8	1	2	2	2	2	2	2	7	2	3	2	2	1	4	2	1	2	2	
7	8	8	0	8	0	7	2	9	8	7	8	8	8	3	7	4	7	7	5	9	7	6	5	7	

ANIMAL ID	0																									females (cont...)
	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	2	3	4	5	6	7	8	9	0	1	1	2	3	4	5	6	7	8	9	0	1	2	3	4		

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	4	2	2	4		3		1		2	3	4	1		4	2	3	3	2	4	4	1	4	4
Myelofibrosis																		2						
Lymph Node																								
Pancreatic, Hemorrhage																								
Thoracic, Hyperplasia, Lymphoid																								
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphoid												3												
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy							3																	
Pigmentation	1		1	2		1	2	2		2	1			1		1	1		1		2		1	1
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation	3		2	2	2	2		2	1		2	2	1	2	3	1	2	2	2	2	2	2	3	1
Pigmentation		2	2	1	2		2	2	2		2		1	2		1		1	1	2	2	1	2	2
Lymphoid Follicle, Atrophy							3	3												2				
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+
Atrophy	4	4	4	4	4	4	4	4	2	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia			2		1																	1		1

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DAY ON TEST	0																								
	7	7	7	5	6	5	5	6	2	7	7	7	7	7	2	7	6	7	7	6	6	7	7	5	7
2	2	2	6	6	4	8	1	2	2	2	2	2	2	7	2	3	2	2	1	4	2	1	2	2	
7	8	8	0	8	0	7	2	9	8	7	8	8	8	3	7	4	7	7	5	9	7	6	5	7	
SPRAGUE-DAWLEY RATS FEMALE 30 MG/KG	0																								
	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
females (cont...)																									

Skin +

MUSCULOSKELETAL SYSTEM

Bone +

NERVOUS SYSTEM

Brain Hemorrhage +

RESPIRATORY SYSTEM

Lung	+																								
Inflammation, Chronic Active	+																								
Pigmentation	1	2				1			2	1	1			1			1	1					2		
Thrombosis																									
Alveolar Epithelium, Metaplasia, Bronchiolar	3	1	2	1	1	1				1			1		1		2	3			2	2	2	1	
Alveolar Epithelium, Metaplasia, Squamous	4				1	1		4						1		4		4		1	1				
Alveolus, Infiltration Cellular, Histiocyte	2	2	2	1		2				1	1					1	2	2	2		1			1	
Serosa, Inflammation, Granulomatous																									
Nose	+																								

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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	0	0	0
	7	7	7	5	6	5	5	6	2	7	7	7	7	7	2	7	6	7	7	6	6	7	7	5	7	
	2	2	2	6	6	4	8	1	2	2	2	2	2	2	7	2	3	2	2	1	4	2	1	2	2	
	7	8	8	0	8	0	7	2	9	8	7	8	8	8	3	7	4	7	7	5	9	7	6	5	7	
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	
30 MG/KG	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	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	2	3	4	5	

females (cont...)

Inflammation	1	2						1							1										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Ear																									
External Ear, Hyperplasia, Squamous																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Anterior Chamber, Inflammation																									
Retina, Degeneration																									
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infarct																									
Inflammation, Diffuse																									
Mineralization																									
Nephropathy																									
Papilla, Necrosis																									
Pelvis, Dilatation																									
Pelvis, Inflammation																									
Pelvis, Transitional Epithelium, Hyperplasia																									
Renal Tubule, Hyperplasia, Atypical																									

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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	0	
	7	7	7	5	6	5	5	6	2	7	7	7	7	2	7	6	7	7	6	6	7	7	5	7	
	2	2	2	6	6	4	8	1	2	2	2	2	2	2	7	2	3	2	2	1	4	2	1	2	2
	7	8	8	0	8	0	7	2	9	8	7	8	8	8	3	7	4	7	7	5	9	7	6	5	7
.....																									
SPRAGUE-DAWLEY RATS FEMALE 30 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
ANIMAL ID	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
.....																									
Renal Tubule, Necrosis																									
	2																								
.....																									
Urethra	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Transitional Epithelium, Hyperplasia																									
	1																								
.....																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

.....
females
(cont...)

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DAY ON TEST	0 0																								* TOTALS	
	5	6	6	7	7	7	6	3	6	5	7	4	5	6	5	6	7	5	7	7	5	4	6	7		7
SPRAGUE-DAWLEY RATS FEMALE 30 MG/KG	0 0																								* TOTALS	
	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
ANIMAL ID	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	0	
Hyperplasia, Nodular				X	X		X	X		X	X		X	X	X	X							X	11		
Inflammation, Chronic Active	1	1	1	1	1	2	1	2		1	2		2	1	1				1	1	1	1	1	32 1.2		
Mixed Cell Focus					X	X				X					X							X		14		
Necrosis			1			1	1		2		1			1							1			10 1.4		
Pigmentation	1	2	2	2		3	2		1	1		4	2		3	1	2		1	1		2	1	1	32 1.6	
Thrombosis																				4				1 4.0		
Toxic Hepatopathy				2		2					2	2			2		1		1	3				14 1.5		
Bile Duct, Cyst											1												1	5 1.4		
Bile Duct, Fibrosis					1		1																	4 1.0		
Bile Duct, Hyperplasia	1		1	2		3	3				2			1	2	2	2		3				2	29 1.6		
Centrilobular, Degeneration			1			1	1			2	1		2		1	2		2	1	3		3	1	18 1.8		
Hepatocyte, Hypertrophy		1	2	3	3	1				3	1	3	4		2	3		2	3		4	2	3	1	38 2.3	
Hepatocyte, Multinucleated																								1	1 1.0	
Oval Cell, Hyperplasia			1			2	2		1	1				1	1				1	3				24 1.3		
Mesentery																								1		
Thrombosis																				2				1 2.0		
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Gingival, Hyperplasia, Cystic Keratinizing						0	0															0		9 0.0		
Gingival, Hyperplasia, Squamous	1	1		1	1							1		1	1				1	1	1		2	1	2	24 1.4
Pancreas	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Atrophy		1							2											3				1	12 1.6	
Inflammation		1																		3				4 2.3		
Acinus, Hyperplasia																							2	1 2.0		
Acinus, Vacuolization Cytoplasmic		2	2	3	2					1	2	1		1	2	4	1					1	3	2	33 1.9	
Duct, Atypia Cellular																								1	2.0	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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DAY ON TEST	0																								* TOTALS	
	0	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	6	3	6	5	7	4	5	6	5	6	7	5	7	7	5	4	6	7	7		
9	8	1	2	2	2	5	9	2	7	2	3	9	4	8	3	2	4	1	2	9	6	7	2	2		
7	8	1	1	7	0	9	1	8	4	7	9	3	4	0	0	7	8	0	7	7	0	3	7	7		
.....																										
SPRAGUE-DAWLEY RATS FEMALE	0																								* TOTALS	
	0																									
	3																									
	2																									
30 MG/KG	6																								* TOTALS	
	7																									
	8																									
	9																									

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation						2					1															1	5 1.6
Mineralization																										1	1 1.0
Necrosis																										2	3 1.7
Epithelium, Hyperplasia	2	4	1	3	2	4	4		1	1	2	3	3		4	3	1	1	3	2	1	3	4	1	4	46 2.4	
.....																											
Stomach, Glandular	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Mineralization																			2								1 2.0
.....																											
Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Peridental Tissue, Inflammation		1	1	1	1						1		1														14 1.1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation	1	3		3	1	4	1																			14 2.1	
Mineralization	4																									2 2.5	
.....																											
Heart	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Cardiomyopathy	1									1					1		1				1	1					13 1.0
Inflammation																											1 3.0
Mineralization	3																										1 3.0
Necrosis																											1 3.0
Thrombosis																											1 2.0

ENDOCRINE SYSTEM

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 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

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008

Time Report Requested: 07:37:02

First Dose M/F: 01/29/03 / 01/30/03

Lab: BAT

	DAY ON TEST																								* TOTALS		
	0 5 9 7	0 6 8 8	0 6 1 1	0 7 2 1	0 7 2 7	0 6 5 0	0 3 9 1	0 6 2 8	0 3 7 4	0 5 7 7	0 4 2 9	0 5 6 3	0 6 7 4	0 5 8 0	0 6 3 0	0 7 2 7	0 5 4 8	0 7 1 0	0 7 2 7	0 5 4 0	0 6 7 3	0 7 2 7	0 7 2 7				
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
30 MG/KG	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5			
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9			
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Atrophy																								1	2.0		
Degeneration	2				1											2	2					1		17	1.5		
Hypertrophy	1	2			1				1		1			1	1	2	1	1	1		3		2	30	1.6		
Necrosis	2											2			2						2		2	7	1.9		
Thrombosis																								1	1.0		
Vacuolization Cytoplasmic					3	2			1					2					1		2		1	13	1.5		
Zona Fasciculata, Hyperplasia			1	2	1				2	1	2			1	1		2		2				3	25	1.9		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Hyperplasia											2													3	1.3		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Parathyroid Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	46	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Necrosis																									2	1.5	
Pars Distalis, Hyperplasia			3				1				1									1			1	12	1.7		
Pars Intermedia, Hyperplasia																								1	1.0		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Inflammation					3																			2	3.0		
C-cell, Hyperplasia									1														3	3	1.7		
Follicular Cell, Hyperplasia					4																			3	3.0		
Follicular Cell, Hypertrophy																								2	1.5		

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 + .. Tissue examined microscopically
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 I .. Insufficient tissue
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TDMS No. 88148 - 06
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0																								* TOTALS	
	5	6	6	7	7	7	6	3	6	5	7	4	5	6	5	6	7	5	7	7	5	4	6	7		7
	9	8	1	2	2	2	5	9	2	7	2	3	9	4	8	3	2	4	1	2	9	6	7	2	2	
	7	8	1	1	7	0	9	1	8	4	7	9	3	4	0	0	7	8	0	7	7	0	3	7	7	
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	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	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
30 MG/KG																										

GENERAL BODY SYSTEM

Peritoneum + 1

GENITAL SYSTEM

Clitoral Gland	+																								50																
Cyst													3													2													1	6	2.0
Hyperplasia, Squamous	2																								3	2.0															
Ovary	+																								50																
Cyst													1													2													1	13	1.8
Inflammation	4																								4	2.0															
Oviduct																									+	3															
Cyst																										2															
Inflammation																									3	3.0															
Uterus	+																								50																
Angiectasis																										1	2.0														
Hemorrhage																										1	3.0														
Inflammation													4	4														3	3.7												
Endometrium, Hyperplasia, Cystic																										5	1.8														
Endometrium, Metaplasia, Squamous	2	3				2																				1	4	3	3	1	3	3	1	2	2	3	22	2.5			

HEMATOPOIETIC 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
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TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

DAY ON TEST	0																								* TOTALS
	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	6	3	6	5	7	4	5	6	5	6	7	5	7	7	5	4	6	7	7	
9	8	1	2	2	2	5	9	2	7	2	3	9	4	8	3	2	4	1	2	9	6	7	2	2	
7	8	1	1	7	0	9	1	8	4	7	9	3	4	0	0	7	8	0	7	7	0	3	7	7	
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30 MG/KG	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
ANIMAL ID	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Bone Marrow
 Hyperplasia
 Myelofibrosis
 + 50
 4 4 1 4 1 2 2 3 2 2 + + 2 4 + 1 2 + 4 3 4 + 3 + 3 40 2.8
 1 2.0

Lymph Node
 Pancreatic, Hemorrhage
 Thoracic, Hyperplasia, Lymphoid
 + + 4
 2
 3 1 3.0

Lymph Node, Mandibular
 Hyperplasia, Lymphoid
 + + + + + + + + + + + M + + + + + + + + + + + 49
 3 2 3.0

Lymph Node, Mesenteric
 Atrophy
 Pigmentation
 + 50
 3 4 3 4 3.3
 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 32 1.2

Spleen
 Hematopoietic Cell Proliferation
 Pigmentation
 Lymphoid Follicle, Atrophy
 + + + + + + + M + + + + + + + + + + + + + + + + + 49
 1 3 2 2 2 2 2 3 1 1 1 1 1 3 1 1 2 1 2 2 3 1 2 2 2 45 1.9
 3 1 2 1 1 1 3 1 2 1 1 3 2 2 2 1 1 1 1 2 2 2 1 42 1.6
 2 2 3 4 8 2.6

Thymus
 Atrophy
 + + + + + + M + + + + + + + + + + + + + + + + + + 47
 4 4 4 4 4 4 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 46 3.9

INTEGUMENTARY SYSTEM

Mammary Gland
 Hyperplasia
 + 50
 1 2 2 2 11 1.4

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 Page 122

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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 | | | |
| | | 5 | 6 | 6 | 7 | 7 | 7 | 6 | 3 | 6 | 5 | 7 | 4 | 5 | 6 | 5 | 6 | 7 | 5 | 7 | 7 | 5 | 4 | 6 | 7 | 7 | |
| | | 9 | 8 | 1 | 2 | 2 | 2 | 5 | 9 | 2 | 7 | 2 | 3 | 9 | 4 | 8 | 3 | 2 | 4 | 1 | 2 | 9 | 6 | 7 | 2 | 2 | |
| | | 7 | 8 | 1 | 1 | 7 | 0 | 9 | 1 | 8 | 4 | 7 | 9 | 3 | 4 | 0 | 0 | 7 | 8 | 0 | 7 | 7 | 0 | 3 | 7 | 7 | |
| SPRAGUE-DAWLEY RATS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FEMALE | | 0 | 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 | 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 | |
| 30 MG/KG | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |

Skin + 50

MUSCULOSKELETAL SYSTEM

Bone + 50

NERVOUS SYSTEM

Brain + 50
 Hemorrhage 2 1 2 1.5

RESPIRATORY SYSTEM

Lung + + + + + + + M + + + + + + + + + + + + + + + + + 49
 Inflammation, Chronic Active 1 1.0
 Pigmentation 2 1 1 2 3 1 2 1 1 1 21 1.4
 Thrombosis 1 1.0
 Alveolar Epithelium, Metaplasia, Bronchiolar 2 2 1 3 1 1 1 2 1 1 26 1.5
 Alveolar Epithelium, Metaplasia, Squamous 4 3 4 4 4 1 4 1 4 18 2.8
 Alveolus, Infiltration Cellular, Histiocyte 2 1 1 2 1 1 2 1 1 1 3 2 1 1 2 3 29 1.6
 Serosa, Inflammation, Granulomatous 4 4.0
 Nose + 50

* .. 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

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
| | 5 | 6 | 6 | 7 | 7 | 7 | 6 | 3 | 6 | 5 | 7 | 4 | 5 | 6 | 5 | 6 | 7 | 5 | 7 | 7 | 5 | 4 | 6 | 7 | | 7 |
| | 9 | 8 | 1 | 2 | 2 | 2 | 5 | 9 | 2 | 7 | 2 | 3 | 9 | 4 | 8 | 3 | 2 | 4 | 1 | 2 | 9 | 6 | 7 | 2 | 2 | |
| | 7 | 8 | 1 | 1 | 7 | 0 | 9 | 1 | 8 | 4 | 7 | 9 | 3 | 4 | 0 | 0 | 7 | 8 | 0 | 7 | 7 | 0 | 3 | 7 | 7 | |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 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 | |
| 30 MG/KG | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|-----------|
| Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | 6 1.2 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| External Ear, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Retina, Degeneration | | | | | | | | | | | | 1 | | | | | | | | | | | | 2 | | 4 1.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | 4 | | | | | | | | | | | | | | | | | | | | | | | 2 | | 4 2.3 | |
| Inflammation, Diffuse | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.3 | |
| Mineralization | 2 | | | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | 1 | 28 1.0 | |
| Nephropathy | 3 | 2 | 1 | 2 | 1 | 1 | | | 2 | | 1 | 2 | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 39 1.4 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Pelvis, Dilatation | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | | | | 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
A .. Autolysis precludes evaluation
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Page 124

TDMS No. 88148 - 06
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 Species/Strain: RATS/SD

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 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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 | 0 | 0 |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | 5 | 6 | 6 | 7 | 7 | 7 | 6 | 3 | 6 | 5 | 7 | 4 | 5 | 6 | 5 | 6 | 7 | 5 | 7 | 7 | 5 | 4 | 6 | 7 | 7 |
| | 9 | 8 | 1 | 2 | 2 | 2 | 5 | 9 | 2 | 7 | 2 | 3 | 9 | 4 | 8 | 3 | 2 | 4 | 1 | 2 | 9 | 6 | 7 | 2 | 2 |
| | 7 | 8 | 1 | 1 | 7 | 0 | 9 | 1 | 8 | 4 | 7 | 9 | 3 | 4 | 0 | 0 | 7 | 8 | 0 | 7 | 7 | 0 | 3 | 7 | 7 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 MG/KG | 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 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | 50 | |

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 M .. Missing tissue
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 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 125

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 4 7 6 7 3 7 3 7 7 7 6 7 5 6 6 5 7 7 6 5 6 7 6 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 2 6 2 3 2 1 2 7 2 2 2 7 2 6 9 3 2 0 2 1 5 8 2 0 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 7 8 0 8 4 8 8 8 1 8 1 7 0 3 2 3 5 8 6 8 4 8 8 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 MG/KG | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum Necrosis | + + + + + M + 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon Parasite Metazoan | + + + + + + + + + + + + + X + + + + + + + + + + + X + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + + + + + M + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + + + + + M + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + + + + + M + | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + + + + + M + | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | 1 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Cholangiofibrosis | 2 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | X X X X X X X X X X X X X X X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Focal | 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Diffuse | 3 1 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | 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

TDMS No. 88148 - 06
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
3,3',4,4'-Tetrachloroazobenzene
CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
Time Report Requested: 07:37:02
First Dose M/F: 01/29/03 / 01/30/03
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 | 0 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 4 | 7 | 6 | 7 | 3 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 6 | 5 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 | |
| | 2 | 6 | 2 | 3 | 2 | 1 | 2 | 7 | 2 | 2 | 2 | 7 | 2 | 6 | 9 | 3 | 2 | 0 | 2 | 1 | 5 | 8 | 2 | 0 | 1 | |
| | 7 | 7 | 8 | 0 | 8 | 4 | 8 | 8 | 8 | 1 | 8 | 1 | 7 | 0 | 3 | 2 | 3 | 5 | 8 | 6 | 8 | 4 | 8 | 8 | 8 | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 100 MG/KG | 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 | |
| ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Hematopoietic Cell Proliferation | 2 | | 2 | | 2 | | 1 | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | | 1 | 1 | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Nodular | | | | | | | X | | X | | X | | X | X | | X | | | | X | X | X | X | | | |
| Inflammation, Chronic Active | 1 | | 1 | | | | 1 | | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | | | | 2 | 1 | 1 | 1 | 1 | 1 | |
| Mixed Cell Focus | X | | | | X | | X | | X | | X | | X | | | | | X | X | | | | | | | |
| Necrosis | | | | 2 | 1 | | | | | | | | | | | 3 | | | | | 3 | | | | | |
| Necrosis, Focal | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Pigmentation | 2 | 3 | 2 | 2 | 1 | | 2 | 1 | 2 | 3 | | 3 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 4 | 2 | 3 | | | 2 | |
| Toxic Hepatopathy | | 1 | | 2 | | | | | | 3 | | 2 | 2 | | | | | | | 3 | | | 1 | | | |
| Bile Duct, Cyst | 1 | | | | | | 1 | | 1 | 2 | 1 | | | | 2 | | | | | | | | | | | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Bile Duct, Hyperplasia | | | 2 | 2 | | | 1 | 1 | 2 | 2 | 3 | 2 | | 1 | 3 | 3 | | 1 | | 2 | 1 | 2 | | 1 | 1 | |
| Centrilobular, Degeneration | | 2 | 1 | 2 | | | | | | | | | 2 | | 1 | 1 | | | | 2 | | 1 | | | | |
| Hepatocyte, Hypertrophy | 3 | 4 | 2 | 2 | 2 | | 4 | 1 | 2 | | 3 | | 3 | 3 | 3 | 1 | | 1 | 2 | 4 | | 4 | 3 | 3 | 2 | |
| Hepatocyte, Multinucleated | 1 | | | 1 | | | 1 | | | | 1 | | 1 | | 1 | 2 | 2 | | | 1 | 1 | 1 | 1 | | 1 | |
| Oval Cell, Hyperplasia | | | | | | | 2 | | 1 | 2 | | 1 | 2 | 1 | 1 | | | 2 | 2 | 2 | 2 | 2 | | 1 | 2 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Gingival, Hyperplasia, Cystic Keratinizing | | | 0 | | | | | | | 0 | | | | | 0 | | | | | 0 | | 0 | | | | |
| Gingival, Hyperplasia, Squamous | | | 1 | | 2 | | | | 1 | | 1 | | 4 | 1 | 1 | 1 | 1 | 1 | | 1 | | | 1 | 1 | 1 | |
| Pancreas | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | 1 | 1 | | 1 | | | | 1 | | | | | | | 4 | | | | | | | 3 | | 4 | |
| Inflammation | | | | | | | | 2 | | | | | | | | | | | | | 2 | | 4 | | | |
| Acinus, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Vacuolization Cytoplasmic | 1 | 1 | 3 | 2 | 2 | | 2 | 1 | 3 | 4 | 1 | | | 2 | 3 | 3 | 1 | 2 | 3 | 1 | | 3 | | 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

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 4 | 7 | 6 | 7 | 3 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 6 | 5 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 |
| SPRAGUE-DAWLEY RATS
FEMALE
100 MG/KG | 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 |
| ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | 3 | | | | | | 2 | | | | 1 | 3 | | | | | 3 | | | | | |
| Necrosis | | | 2 | | | | | | | | | | | 2 | | | | | | | | | | |
| Epithelium, Hyperplasia | 2 | 2 | 4 | 1 | 2 | | 1 | 1 | | 4 | 1 | 1 | 1 | 3 | 4 | 3 | | 1 | 2 | 2 | 2 | 4 | 3 | 4 |
| Stomach, Glandular | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peridental Tissue, Inflammation | | | 2 | | | | | | 1 | 2 | 1 | | 1 | 3 | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | 1 | | | 4 | 3 | 3 | 2 | | 1 | | | | 1 | | 4 | | 3 | | 2 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | 1 | | | 1 | | | 1 | | 1 | | 1 | 2 | | | 1 | 1 | | 2 | 1 | | 1 | | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
 Page 128

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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 | 0 | |
| | 7 | 4 | 7 | 6 | 7 | 3 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 6 | 5 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 |
| | 2 | 6 | 2 | 3 | 2 | 1 | 2 | 7 | 2 | 2 | 2 | 7 | 2 | 6 | 9 | 3 | 2 | 0 | 2 | 1 | 5 | 8 | 2 | 0 | 1 |
| | 7 | 7 | 8 | 0 | 8 | 4 | 8 | 8 | 8 | 1 | 8 | 1 | 7 | 0 | 3 | 2 | 3 | 5 | 8 | 6 | 8 | 4 | 8 | 8 | 8 |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 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 |
| 100 MG/KG | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

**females
(cont...)**

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration | | | 1 | | 1 | | | | | | 1 | | | | | | | | | | 2 | 1 | | 1 |
| Hypertrophy | 4 | | 2 | 2 | 2 | | 3 | | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 3 | | 1 | 1 | | | | 2 | 3 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | 1 | | | | | | | | | | | | | | | | | | 2 | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | 1 | 1 | | | | | | | 3 | | | 1 | | | | | 1 | 1 | 1 | | | | 1 |
| Zona Fasciculata, Hyperplasia | 2 | | 1 | | | | | | | 2 | 3 | 2 | | 2 | 1 | | 3 | 1 | 2 | | | 1 | 2 | |
| Adrenal Medulla | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | 1 | | | | | 2 | | | | | | | | 1 | | | 1 | 2 | | |
| Islets, Pancreatic | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Hyperplasia | | | | | 2 | | 1 | | 2 | | | | 2 | | 1 | | | 1 | | 1 | 2 | 1 | 3 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 3 | | 2 | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | 4 | | | | 3 | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

TDMS No. 88148 - 06
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 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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 | 0 | |
|-----------------------------------|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 4 | 7 | 6 | 7 | 3 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 6 | 5 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 |
| | 2 | 6 | 2 | 3 | 2 | 1 | 2 | 7 | 2 | 2 | 2 | 7 | 2 | 6 | 9 | 3 | 2 | 0 | 2 | 1 | 5 | 8 | 2 | 0 | 1 |
| | 7 | 7 | 8 | 0 | 8 | 4 | 8 | 8 | 8 | 1 | 8 | 1 | 7 | 0 | 3 | 2 | 3 | 5 | 8 | 6 | 8 | 4 | 8 | 8 | 8 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 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 |
| 100 MG/KG | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | Follicular Cell, Hyperplasia | | | | 4 | | | | 1 | | | | 2 | | | | | | | | 2 | | | | |
| | Follicular Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | |
| Cyst | | | | | | | | | 1 | | | | | 4 | | 1 | 1 | 4 | | 3 | 3 | | | 1 | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 4 | | 3 | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | |
| Adenomyosis | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Cyst | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | 1 | | | | | | | | | | 4 | | | | 1 | 1 | | | | | | | | | |
| Endometrium, Metaplasia, Squamous | | | | | | | | | | | 1 | | | 1 | | | | | | | 3 | 1 | | 3 | | 4 | 2 | 1 | 3 | | | 1 | 2 | 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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TDMS No. 88148 - 06
 Test Type: CHRONIC
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 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

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 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
| | 7 4 7 6 7 3 7 3 7 7 7 6 7 5 6 6 5 7 7 6 5 6 7 6 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 2 6 2 3 2 1 2 7 2 2 2 7 2 6 9 3 2 0 2 1 5 8 2 0 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 7 8 0 8 4 8 8 8 1 8 1 7 0 3 2 3 5 8 6 8 4 8 8 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| | 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 | |
| 100 MG/KG | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymphoid Follicle, Atrophy | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vein, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Necrosis | | | | | 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:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 132

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 4 7 6 7 3 7 3 7 7 7 6 7 5 6 6 5 7 7 6 5 6 7 6 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 6 2 3 2 1 2 7 2 2 2 7 2 6 9 3 2 0 2 1 5 8 2 0 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 7 8 0 8 4 8 8 8 1 8 1 7 0 3 2 3 5 8 6 8 4 8 8 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | |
| 100 MG/KG | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | |

Peripheral Nerve +

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | |
| Pigmentation | 1 | | | | 1 | | 1 | | 1 | 1 | 1 | 1 | | 1 | | 1 | | 2 | 1 | | | 1 | | 1 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Bronchiolar | 1 | 1 | 2 | | 2 | | 2 | 1 | 2 | 1 | 2 | 2 | | 1 | 1 | 2 | 2 | 2 | 2 | 1 | | 2 | 2 | 3 | | |
| Alveolar Epithelium, Metaplasia, Squamous | 2 | | 1 | 1 | 4 | | 2 | | 4 | 1 | | 3 | 3 | 4 | | | | 3 | 2 | | | | 1 | 4 | 3 | |
| Alveolus, Infiltration Cellular, Histiocyte Artery, Hypertrophy | | 2 | | | 2 | | 2 | | 2 | 2 | 2 | 1 | | 3 | | | | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 2 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | | | | | 2 | | | | | | | | 1 | 1 | | | | 2 | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Synechia | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | | 4 | | 4 | | | | | | | | | | | |
| Lens, Cataract | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | 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

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 4 | 7 | 6 | 7 | 3 | 7 | 3 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 6 | 5 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 | |
| | 2 | 6 | 2 | 3 | 2 | 1 | 2 | 7 | 2 | 2 | 2 | 7 | 2 | 6 | 9 | 3 | 2 | 0 | 2 | 1 | 5 | 8 | 2 | 0 | 1 | |
| | 7 | 7 | 8 | 0 | 8 | 4 | 8 | 8 | 8 | 1 | 8 | 1 | 7 | 0 | 3 | 2 | 3 | 5 | 8 | 6 | 8 | 4 | 8 | 8 | 8 | |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 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 | |
| 100 MG/KG | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | 2 | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Casts | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | 1 | | | | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 |
| Nephropathy | 1 | 1 | 2 | 1 | 3 | | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 3 | 1 | | | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
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 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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 | 0 | |
|----------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| DAY ON TEST | | 6 | 7 | 4 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 4 | 5 | 7 | 6 | 6 | 7 | 6 | 5 | 7 | 6 | 6 | 5 |
| DAY ON TEST | | 5 | 2 | 0 | 2 | 9 | 2 | 7 | 0 | 2 | 2 | 2 | 5 | 3 | 8 | 9 | 2 | 8 | 8 | 2 | 4 | 3 | 2 | 1 | 8 | 8 |
| DAY ON TEST | | 8 | 7 | 1 | 7 | 3 | 5 | 9 | 5 | 8 | 8 | 8 | 1 | 2 | 1 | 0 | 7 | 9 | 4 | 7 | 9 | 6 | 7 | 7 | 4 | 8 |
| SPRAGUE-DAWLEY RATS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 MG/KG | | 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 |
| ANIMAL ID | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| ANIMAL ID | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Angiectasis | | | | | | | | | | | 2 | | | | | | | 1 | | | | | | | | 5 |
| Basophilic Focus | X | | | | X | | | | | | | | | | | | | X | | | | | | | | 7 |
| Cholangiofibrosis | | | | | | 4 | 2 | 1 | | 1 | | 1 | | | | | | | 3 | | | | | | | 11 |
| Clear Cell Focus | | | | X | | | | | X | X | | X | | | | | | | | | | | | | | 7 |
| Eosinophilic Focus | X | X | | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | 38 |
| Fatty Change, Focal | | | 1 | | | | | | | | | | | | | | | | 1 | 2 | | 1 | | 2 | | 9 |
| Fatty Change, Diffuse | | | | | | | 2 | 2 | 1 | | | 1 | | | | | 1 | 1 | | | | | | | | 10 |
| Fibrosis | | | | | | | | 2 | 2 | | 2 | | | | | | 2 | 1 | | | | | 2 | | | 6 |

* .. 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

Page 135

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|------------|------------|
| | 6 | 7 | 4 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 4 | 5 | 7 | 6 | 6 | 7 | 6 | 5 | 7 | 6 | 6 | | 5 | |
| SPRAGUE-DAWLEY RATS
FEMALE
100 MG/KG | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
| | 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 | |
| ANIMAL ID | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | | |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |
| Hematopoietic Cell Proliferation | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 37 | 1.2 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hyperplasia, Nodular | | X | | | X | X | | X | X | | | X | X | X | X | | X | | X | | X | | | 22 | | | |
| Inflammation, Chronic Active | | | | 1 | 2 | 2 | | 2 | 2 | | | 1 | 2 | 1 | | | | | 1 | 1 | | | 2 | 2 | 30 | 1.4 | |
| Mixed Cell Focus | X | | X | | X | | | X | X | X | | | | | | | | | X | | | | | 16 | | | |
| Necrosis | | | | | | 3 | 1 | | | | | | 2 | 2 | | | | | 3 | | | | 2 | 10 | 2.2 | | |
| Necrosis, Focal | | | | | | | | | | | | | | | 1 | | | | | | | | | 2 | 1.0 | | |
| Pigmentation | 2 | 1 | | 1 | | 3 | | 3 | | 3 | 3 | | 3 | 1 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 1 | 4 | 2 | 40 | 2.1 | |
| Toxic Hepatopathy | | 2 | | 1 | | | 3 | 3 | 4 | 3 | | 1 | 2 | 3 | 3 | 4 | 2 | 2 | 2 | 1 | 1 | | 3 | 1 | 25 | 2.2 | |
| Bile Duct, Cyst | 1 | | | | 1 | | | | 1 | | | | | | | 2 | | 2 | 4 | | | | | 12 | 1.6 | | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Bile Duct, Hyperplasia | 1 | 3 | 1 | 2 | 1 | | 1 | 2 | 2 | 3 | 2 | 1 | 2 | | 2 | 2 | 2 | 1 | 1 | 2 | | 2 | 2 | 38 | 1.8 | | |
| Centrilobular, Degeneration | 1 | | 1 | | 2 | 1 | | 2 | | | | 1 | | 2 | 1 | | 2 | | | | | | | 17 | 1.5 | | |
| Hepatocyte, Hypertrophy | | 3 | 1 | 3 | 2 | 3 | 4 | 3 | 4 | 4 | 2 | 1 | 1 | 4 | | 2 | | 3 | 2 | 4 | 2 | 2 | 1 | 4 | 4 | 42 | 2.6 |
| Hepatocyte, Multinucleated | | 1 | | | 2 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 2 | 1 | 1 | | | 1 | | | | 1 | 1 | 28 | 1.2 | |
| Oval Cell, Hyperplasia | 1 | 2 | | 1 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | | 2 | 1 | 3 | 3 | 2 | 1 | | 2 | 2 | 2 | 1 | 3 | 2 | 36 | 1.8 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gingival, Hyperplasia, Cystic Keratinizing | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Gingival, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 13 | 0.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 24 | 1.4 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 49 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 13 | 2.0 | |
| Acinus, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | 6 | 2.5 | |
| Acinus, Vacuolization Cytoplasmic | 1 | 3 | | 3 | 2 | 2 | | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 2 | 4 | 2 | | 3 | 1 | 4 | 1 | 1.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 40 | 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
 2) Mild 4) Marked
 Page 136

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----|-----|-----|-----|
| | 6 | 7 | 4 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 4 | 5 | 7 | 6 | 6 | 7 | 6 | 5 | 7 | 6 | | 6 | 5 | | |
| SPRAGUE-DAWLEY RATS FEMALE
100 MG/KG | 0 | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
| | 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 | | |
| ANIMAL ID | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | | |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Cyst | | | | | | | | | | | | | | | | | | 3 | | | | | | | 2 | 3.5 | | |
| Inflammation | | | | | | | | | | | | | | | | | 2 | | | | | | | | 2 | 2.3 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Epithelium, Hyperplasia | 2 | 1 | | | 4 | 2 | 4 | 4 | 2 | 2 | 1 | 4 | 3 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 3 | 4 | 3 | 46 | 2.5 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Peridontal Tissue, Inflammation | | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 | 1 | 9 | 1.4 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|----|-----|-----|-----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | | |
| Inflammation | | | 3 | | | | | | | | | 2 | 3 | 1 | | | | | | | | | | | | | | 16 | 2.4 | | | |
| Mineralization | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | |
| Thrombosis | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | | | | | |
| Cardiomyopathy | | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 24 | 1.1 | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.7 |

* .. 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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TDMS No. 88148 - 06
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|---|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|----------|-----|
| | 6 7 4 7 6 7 6 7 7 7 7 5 6 4 5 7 6 6 7 6 5 7 6 6 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS
FEMALE
100 MG/KG | 5 2 0 2 9 2 7 0 2 2 2 5 3 8 9 2 8 8 2 4 3 2 1 8 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 7 1 7 3 5 9 5 8 8 8 1 2 1 0 7 9 4 7 9 6 7 7 4 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | 4 | | | | | | | | | | | | 1 | | | | | | | | 3 | 3.3 |
| Follicular Cell, Hypertrophy | 4 | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.0 |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|---|--|---|---|---|--|---|----|-----|--|---|--|---|--|---|--|---|--|----|-----|--|--|--|--|--|--|---|--|---|-----|---|-----|---|-----|
| Clitoral Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | 4 | 12 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.6 | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | 2 | 3.5 | | |
| Uterus | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenomyosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 2.0 | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | 2.0 | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | 2.5 | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 | 3.0 | | | | |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 3.0 | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 3 | 3.0 | | |
| Endometrium, Hyperplasia, Cystic | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 6 | 1.8 |
| Endometrium, Metaplasia, Squamous | 2 | | 2 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | | 4 | | 4 | | 2 | | 3 | | 4 | | 22 | 2.4 | | | | | | | | | | | | | | |

* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 88148 - 06
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 6 7 4 7 6 7 6 7 7 7 7 5 6 4 5 7 6 6 7 6 5 7 6 6 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 5 2 0 2 9 2 7 0 2 2 2 5 3 8 9 2 8 8 2 4 3 2 1 8 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 7 1 7 3 5 9 5 8 8 8 1 2 1 0 7 9 4 7 9 6 7 7 4 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| FEMALE | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 MG/KG | 3 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------|
| Lymphoid Follicle, Atrophy | 2 1 3 3 2 2 3 | | | | | | | | | | | | | | | | | | | | | | | | | 10 2.3 |
| Thymus | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Atrophy | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 50 3.9 |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Vein, Thrombosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------|
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Hyperplasia | 1 3 1 | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Skin | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|
| Bone | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
|------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------|
| Brain | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

* .. 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
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 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 141

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 06/10/2008

Time Report Requested: 07:37:02

First Dose M/F: 01/29/03 / 01/30/03

Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|
| | 6 7 4 7 6 7 6 7 7 7 7 5 6 4 5 7 6 6 7 6 5 7 6 6 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 5 2 0 2 9 2 7 0 2 2 2 5 3 8 9 2 8 8 2 4 3 2 1 8 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 7 1 7 3 5 9 5 8 8 8 1 2 1 0 7 9 4 7 9 6 7 7 4 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 MG/KG | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 | | | | | | | | | | | | | | | | | | | | | | | | | |

Harderian Gland Inflammation + 50
 1 2.0

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|--------|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Casts | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 1.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 3.5 |
| Inflammation, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 2.5 |
| Mineralization | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 1 4 | 29 1.1 |
| Nephropathy | 1 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2 2 | 42 1.5 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 2.0 |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 2.0 |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 2.7 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 2.0 |
| Urethra | + + + + + + + + + + + + + + + + + + M + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 |
| Transitional Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Urinary Bladder Inflammation | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 | 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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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 2) Mild 4) Marked
 Page 143

TDMS No. 88148 - 06
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 3,3',4,4'-Tetrachloroazobenzene
 CAS Number: 14047-09-7

Date Report Requested: 06/10/2008
 Time Report Requested: 07:37:02
 First Dose M/F: 01/29/03 / 01/30/03
 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 | 0 | | | |
| | 6 | 7 | 4 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 4 | 5 | 7 | 6 | 6 | 7 | 6 | 5 | 7 | 6 | 6 | 5 | | |
| | 5 | 2 | 0 | 2 | 9 | 2 | 7 | 0 | 2 | 2 | 2 | 5 | 3 | 8 | 9 | 2 | 8 | 8 | 2 | 4 | 3 | 2 | 1 | 8 | 8 | | |
| | 8 | 7 | 1 | 7 | 3 | 5 | 9 | 5 | 8 | 8 | 8 | 1 | 2 | 1 | 0 | 7 | 9 | 4 | 7 | 9 | 6 | 7 | 7 | 4 | 8 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FEMALE | 0 | 0 | 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 | 4 | |
| ANIMAL ID | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| 100 MG/KG | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS | |

*** END OF REPORT ***

* .. 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
 Page 144