

**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:** 04/15/2009

**Time Report Requested:** 09:57:26

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

**Lab:** BAT

F3\_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:** 2.1.0



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Date Report Requested: 04/15/2009  
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 First Dose M/F: 01/29/03 / 01/30/03  
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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	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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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																								
	0	0	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																								
	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...)

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	1
Inflammation	2																								
Mineralization			1			3		1																	

**ENDOCRINE SYSTEM**

Adrenal Cortex	+																								
Angiectasis																									
Degeneration								1				1									1				
Hypertrophy			2	1		4			1	2	2	2	2	1		2	1				1	1	2	1	1
Vacuolization Cytoplasmic	2			2					1	2	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																								
	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	0																								
	0	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	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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

males  
(cont...)

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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	
<b>SPRAGUE-DAWLEY RATS MALE</b> 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	
	5	5	5	5	5	5	5	5	5	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	+																								
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																								
Clear Cell Focus	X X																								
Congestion																									
Eosinophilic Focus	X X																								
Fatty Change, Focal	1 1																								
Fatty Change, Diffuse	2 2 1 1																								

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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																								
SPRAGUE-DAWLEY RATS MALE 10 MG/KG ANIMAL ID	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																								
10 MG/KG ANIMAL ID	0 0																								
	0 0																								
10 MG/KG ANIMAL ID	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																								
10 MG/KG 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																								
	males (cont...)																								

**GENITAL SYSTEM**

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

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	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 30 MG/KG ANIMAL ID	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																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>males (cont...)</b>
	0	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	

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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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 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																																																	
Eosinophilic Focus																										X	X	X	X																X	X				
Fatty Change, Focal																																																		2
Fatty Change, Diffuse	1	2	1			1	1	2			2	2	1	1	1				1	2	3	2																												
Fibrosis																																																		2
Hematopoietic Cell Proliferation	1			1	1							1	1			1	1	1			1	1	1	1	1	1	2																							
Hyperplasia, Nodular																														X	X																			
Inflammation, Chronic Active	1	1	1					1	1									1	1	2	1	1					2																							
Mixed Cell Focus																																																		
Necrosis			2			3	2			1			3	2	2			1			2			1																										
Pigmentation																																								1	1							2		
Toxic Hepatopathy			1																			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	3	2	4																											
Bile Duct, Metaplasia																																																		
Centrilobular, Degeneration	2			1			3													2	2	1	1																											
Centrilobular, Fatty Change																																																		
Hepatocyte, Hypertrophy	4			1	2			1	3	2			2	2	1			2			1	3																												
Hepatocyte, Multinucleated																																																		
Oval Cell, Hyperplasia	2			1																																														
Mesentery																																																		
Oral Mucosa																																																		
Gingival, Hyperplasia, Cystic Keratinizing																																																		
Gingival, Hyperplasia, Squamous	2			2			1	3	3	1			2	3	2	3			2			3	2	1	1	3																								
Pancreas																																																		
Atrophy			1																																															
Inflammation																																																		

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	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	
<b>SPRAGUE-DAWLEY RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>100 MG/KG</b>	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	
	5	5	5	5	5	5	5	5	6	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	5
																								<b>males (cont...)</b>	

Necrosis																								3
Thrombosis																								2

**ENDOCRINE SYSTEM**

Adrenal Cortex	+ +																																	
Degeneration																								2	1									
Hypertrophy																								2	1	1	1							
Necrosis																								2	2	1	3	1	2					
Vacuolization Cytoplasmic																								2	1	1	1	1	2	2	1	2	2	1
Zona Fasciculata, Hyperplasia																								1	1	3	2	1	2	4	2	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										

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	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 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...)																								

Trachea +

**SPECIAL SENSES SYSTEM**

Eye +  
 Anterior Chamber, Inflammation 3  
 Cornea, Inflammation 3  
 Retina, Atrophy  
 Retina, Degeneration 3  
 Harderian Gland +  
 Atrophy 2

**URINARY SYSTEM**

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

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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 64



























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: 04/15/2009  
 Time Report Requested: 09:57:26  
 First Dose M/F: 01/29/03 / 01/30/03  
 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...)
	0	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	0	0	0	0	0	0	0	0	1	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		

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

  

Peridental 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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 Page 78









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: 04/15/2009  
 Time Report Requested: 09:57:26  
 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
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	
.....																									
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females (cont...)

**RESPIRATORY SYSTEM**

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

**SPECIAL SENSES SYSTEM**

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

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

	DAY ON TEST																								* 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							
	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						
<b>SPRAGUE-DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
<b>FEMALE</b>	0	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						
<b>0 MG/KG</b>	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						
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																															
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	1.0	
Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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

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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
	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
<b>SPRAGUE-DAWLEY RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	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
<b>10 MG/KG</b>	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...)

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**  
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 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																								
ANIMAL ID	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																								
	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																								
	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 1																								
Hypertrophy	4 1 2 2 2 2 2 2 2 1 1 2 3 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 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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 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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 First Dose M/F: 01/29/03 / 01/30/03  
 Lab: BAT

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	
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	
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	
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	
Hyperplasia, Nodular				X	X		X	X		X	X		X	X		X	X		X	X		X	X		
Inflammation, Chronic Active	1	1	1	1	1	2	1	2		1	2		2	1	1		2	1	1		1	1	1	1	
Mixed Cell Focus					X	X				X					X							X			
Necrosis			1			1	1		2		1			1						1					
Pigmentation	1	2	2	2		3	2		1	1		4	2		3	1	2		1	1		2	1	1	
Thrombosis																				4					
Toxic Hepatopathy				2		2					2	2			2		1		1	3					
Bile Duct, Cyst											1												1		
Bile Duct, Fibrosis					1		1																	1	
Bile Duct, Hyperplasia	1		1	2		3	3				2				1	2	2	2		3			2	2	
Centrilobular, Degeneration			1			1	1				2	1		2		1	2		2	1	3		3	1	
Hepatocyte, Hypertrophy		1	2	3	3	1				3	1	3	4		2	3		2	3		4	2	3	1	
Hepatocyte, Multinucleated																									
Oval Cell, Hyperplasia			1			2	2		1	1				1	1			1	3				1		
Mesentery																									
Thrombosis																					2			1	
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Gingival, Hyperplasia, Cystic Keratinizing						1	3															2			
Gingival, Hyperplasia, Squamous	1	1		1	1								1		1	1				1	1	1	2	1	
Pancreas	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Atrophy		1							2											3				1	
Inflammation		1																		3					
Acinus, Hyperplasia																							2		
Acinus, Vacuolization Cytoplasmic		2	2	3	2					1	2	1		1	2	4	1					1	3	2	
Duct, Atypia Cellular																									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



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: 04/15/2009  
 Time Report Requested: 09:57:26  
 First Dose M/F: 01/29/03 / 01/30/03  
 Lab: BAT

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	
ANIMAL ID	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	
<b>SPRAGUE-DAWLEY RATS FEMALE</b>																									
<b>30 MG/KG</b>																									
Adrenal Cortex	+ +																								50
Atrophy																									1 2.0
Degeneration	2 1																								17 1.5
Hypertrophy	1 2 1 1 1 2 1 1 1 3 2																								30 1.6
Necrosis	2 2 2																								7 1.9
Thrombosis																									1 1.0
Vacuolization Cytoplasmic	3 2 1 2 1 2 1 2																								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																								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

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