

TDMS No. 20114 - 01

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

Date Report Requested: 01/14/2009

Test Type: 90-DAY

Sodium dichromate dihydrate (VI)

Time Report Requested: 15:00:11

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 11/12/01 / 11/11/01

Species/Strain: RATS/F 344/N

Lab: SRI

F1_Rev1_R2

C Number: C20114
Lock Date: 06/24/2002
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

Test Type: 90-DAY

Sodium dichromate dihydrate (VI)

Time Report Requested: 15:00:11

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 11/12/01 / 11/11/01

Species/Strain: RATS/F 344/N

Lab: SRI

FISCHER 344 RATS MALE	0 MG/L	62.5MG/L	125MG/L	250MG/L	500MG/L	1000 MG/L
Disposition Summary						
Animals Initially in Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Intestine Small, Duodenum	(10)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Histiocyte			7 [1.1]	9 [1.2]	8 [1.4]	7 [1.4]
Liver	(10)	(10)	(10)	(10)	(9)	(10)
Hematopoietic Cell Proliferation, Focal	2 [1.0]					
Hepatodiaphragmatic Nodule					1	
Infiltration Cellular, Mixed Cell	2 [1.0]	1 [1.0]				1 [1.0]
Inflammation, Focal, Chronic			2 [1.0]		2 [1.0]	1 [1.0]
Centrilobular, Vacuolization Cytoplasmic	1 [1.0]					
Oral Mucosa	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Focal	2 [1.0]					
Pancreas	(10)	(6)	(6)	(6)	(6)	(10)
Acinus, Atrophy, Focal						2 [1.0]
Salivary Glands	(10)	(6)	(6)	(6)	(6)	(10)
Parotid Gland, Basophilic Focus, Multiple	7 [1.1]	3 [1.0]	4 [1.0]	4 [1.0]	3 [1.3]	10 [1.4]
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)	(10)
Ulcer						1 [3.0]
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)	(10)
Ulcer					1 [2.0]	8 [3.0]
Epithelium, Hyperplasia, Regenerative, Focal						10 [2.2]
Epithelium, Metaplasia, Squamous, Focal						7 [2.6]
Tongue	(10)	(10)	(10)	(10)	(10)	(10)
Granuloma, Focal					1 [1.0]	
CARDIOVASCULAR SYSTEM						
Heart	(10)	(6)	(6)	(6)	(6)	(10)

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

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

Test Type: 90-DAY

Time Report Requested: 15:00:11

Route: DOSED WATER

First Dose M/F: 11/12/01 / 11/11/01

Species/Strain: RATS/F 344/N

Lab: SRI

FISCHER 344 RATS MALE	0 MG/L	62.5MG/L	125MG/L	250MG/L	500MG/L	1000 MG/L
Cardiomyopathy, Focal	6 [1.0]	5 [1.0]	3 [1.0]	5 [1.0]	6 [1.0]	4 [1.0]
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(6)	(6)	(6)	(6)	(10)
Accessory Adrenal Cortical Nodule	1			1		
Hyperplasia, Focal				1 [1.0]		
Hypertrophy, Focal						1 [1.0]
Pituitary Gland	(10)	(6)	(6)	(6)	(6)	(10)
Pars Distalis, Angiectasis				1 [1.0]		
Pars Distalis, Cyst	2 [1.0]	1 [2.0]	1 [1.0]			
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Testes	(10)	(6)	(6)	(6)	(6)	(10)
Atrophy	1 [1.0]				1 [1.0]	
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Hyperplasia				2 [1.0]		3 [1.0]
Lymph Node	(10)	(10)	(10)	(9)	(10)	(10)
Mediastinal, Hemorrhage	2 [1.5]					1 [1.0]
Pancreatic, Ectasia					1 [1.0]	10 [1.7]
Pancreatic, Hyperplasia, Lymphoid				3 [1.0]	3 [1.0]	6 [2.7]
Pancreatic, Infiltration Cellular, Histiocyte		5 [1.0]	2 [1.0]	4 [1.0]	5 [1.0]	9 [1.8]
Lymph Node, Mesenteric	(10)	(6)	(6)	(6)	(6)	(10)
Ectasia					1 [2.0]	
Infiltration Cellular, Histiocyte	1 [1.0]	1 [1.0]		3 [1.0]		1 [1.0]
Spleen	(10)	(6)	(6)	(6)	(6)	(10)
Hematopoietic Cell Proliferation						1 [1.0]
INTEGUMENTARY SYSTEM						

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

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

Test Type: 90-DAY

Time Report Requested: 15:00:11

Route: DOSED WATER

First Dose M/F: 11/12/01 / 11/11/01

Species/Strain: RATS/F 344/N

Lab: SRI

FISCHER 344 RATS MALE	0 MG/L	62.5MG/L	125MG/L	250MG/L	500MG/L	1000 MG/L
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
Lung	(10)	(6)	(6)	(6)	(6)	(10)
Inflammation, Focal, Acute						1 [1.0]
Inflammation, Focal, Chronic	3 [1.0]	1 [1.0]	2 [1.0]	2 [1.0]	1 [2.0]	3 [1.0]
Metaplasia, Osseous						1 [1.0]
Alveolar Epithelium, Bronchiole, Hyperplasia					1 [1.0]	
Alveolus, Infiltration Cellular, Histiocyte	1 [1.0]					2 [1.0]
SPECIAL SENSES SYSTEM						
Harderian Gland	(10)	(6)	(6)	(6)	(6)	(10)
Inflammation, Focal, Chronic						2 [1.0]
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Casts Protein			1 [1.0]		1 [1.0]	
Nephropathy	5 [1.0]	1 [1.0]	1 [1.0]	2 [1.0]	4 [1.0]	4 [1.0]

*** END OF MALE ***

a - Number of animals examined microscopically at site and number of animals with lesion
b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: 90-DAY

Sodium dichromate dihydrate (VI)

Time Report Requested: 15:00:11

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 11/12/01 / 11/11/01

Species/Strain: RATS/F 344/N

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/L	62.5MG/L	125MG/L	250MG/L	500MG/L	1000 MG/L
Disposition Summary						
Animals Initially in Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Intestine Small, Duodenum	(10)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Histiocyte		1 [1.0]	5 [1.0]	7 [1.4]	8 [1.6]	10 [1.7]
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Hepatodiaphragmatic Nodule	1			1	1	2
Infiltration Cellular, Histiocyte		3 [1.3]	6 [1.0]	6 [1.0]	9 [1.2]	8 [1.0]
Inflammation, Focal, Chronic	3 [1.0]	5 [1.0]	2 [1.0]	7 [1.0]	2 [1.0]	10 [1.0]
Necrosis, Focal				1 [1.0]	1 [1.0]	
Oral Mucosa	(10)	(10)	(10)	(10)	(10)	(10)
Dysplasia					1 [2.0]	
Salivary Glands	(10)	(6)	(6)	(6)	(6)	(10)
Parotid Gland, Basophilic Focus, Multiple	6 [1.0]	2 [1.0]	2 [1.5]	1 [1.0]	2 [1.0]	5 [1.2]
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)	(10)
Muscularis, Inflammation, Focal, Chronic						1 [2.0]
Active						
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)	(10)
Degeneration, Cystic						1 [1.0]
Ulcer						10 [3.5]
Epithelium, Hyperplasia, Regenerative,						10 [2.0]
Focal						
Epithelium, Metaplasia, Squamous, Focal						10 [2.4]
Muscularis, Inflammation, Focal, Chronic						1 [2.0]
Active						
CARDIOVASCULAR SYSTEM						
Heart	(10)	(6)	(6)	(6)	(6)	(10)
Cardiomyopathy, Focal	3 [1.0]		2 [1.0]	2 [1.0]	1 [1.0]	1 [1.0]

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

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

Test Type: 90-DAY

Sodium dichromate dihydrate (VI)

Time Report Requested: 15:00:11

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 11/12/01 / 11/11/01

Species/Strain: RATS/F 344/N

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/L	62.5MG/L	125MG/L	250MG/L	500MG/L	1000 MG/L
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(6)	(6)	(6)	(6)	(9)
Accessory Adrenal Cortical Nodule						1
Pituitary Gland	(10)	(6)	(6)	(6)	(6)	(10)
Rathke's Cleft, Cyst	1		1	1	1	4
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(6)	(6)	(6)	(6)	(9)
Duct, Ectasia	1 [2.0]					
Ovary	(10)	(6)	(6)	(6)	(6)	(10)
Cyst	2 [2.0]		1			2 [2.0]
Uterus	(10)	(6)	(6)	(6)	(6)	(10)
Hydrometra	2 [2.0]		1 [2.0]			1 [2.0]
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Hyperplasia						4 [1.0]
Lymph Node	(10)	(10)	(10)	(10)	(10)	(10)
Mediastinal, Hemorrhage	2 [2.0]					1 [2.0]
Mediastinal, Hyperplasia, Lymphoid	1 [2.0]					
Pancreatic, Ectasia					1 [1.0]	10 [1.8]
Pancreatic, Hemorrhage	1 [2.0]				1 [2.0]	1 [2.0]
Pancreatic, Hyperplasia, Lymphoid			2 [1.5]			10 [2.1]
Pancreatic, Infiltration Cellular, Histiocyte	4 [1.0]	8 [1.4]	7 [1.7]	7 [1.3]	7 [1.7]	9 [1.9]
Lymph Node, Mesenteric	(10)	(6)	(6)	(6)	(6)	(10)
Infiltration Cellular, Histiocyte	3 [1.0]	2 [1.5]	3 [1.7]	2 [2.0]	5 [1.4]	6 [1.0]
INTEGUMENTARY SYSTEM						

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

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

Test Type: 90-DAY

Time Report Requested: 15:00:11

Route: DOSED WATER

First Dose M/F: 11/12/01 / 11/11/01

Species/Strain: RATS/F 344/N

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/L	62.5MG/L	125MG/L	250MG/L	500MG/L	1000 MG/L
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
Lung	(10)	(5)	(6)	(6)	(6)	(10)
Infiltration Cellular, Histiocyte Inflammation, Focal, Chronic Metaplasia, Osseous	4 [1.0] 1 [1.0]	3 [1.0]	1 [1.0]	1 [1.0]	1 [1.0]	2 [1.0]
Alveolus, Infiltration Cellular, Histiocyte		1 [1.0]				
SPECIAL SENSES SYSTEM						
Harderian Gland	(10)	(6)	(6)	(6)	(6)	(10)
Infiltration Cellular, Lymphoid Inflammation, Focal, Chronic			1 [1.0]	1 [1.0]	1 [2.0]	
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Casts Protein Nephropathy Pelvis, Inflammation			1 [1.0]	1 [1.0]	1 [1.0]	1 [1.0] 1 [1.0]

*** END OF REPORT ***

a - Number of animals examined microscopically at site and number of animals with lesion
b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)