

**TDMs No.** 20114 - 06

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

**Date Report Requested:** 10/04/2007

**Test Type:** CHRONIC

Sodium dichromate dihydrate (VI)

**Time Report Requested:** 10:37:54

**Route:** DOSED WATER

**CAS Number:** 7789-12-0

**First Dose M/F:** 09/04/02 / 09/04/02

**Species/Strain:** MICE/B6C3F1

**Lab:** SRI

F2\_M3

**C Number:** C20114  
**Lock Date:** 10/04/2005  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**TDMSE Version:** 1.8.0

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Lab: SRI

B6C3F1 MICE MALE	0 MG/L	14.3 MG/L	28.6 MG/L	85.7 MG/L	257.4 MG/L
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### Disposition Summary

Animals Initially in Study	50	50	50	50	50
Early Deaths					
Moribund Sacrifice	7	5	5	4	3
Natural Death	10	10	10	8	15
Survivors					
Natural Death	1				1
Terminal Sacrifice	32	35	35	38	31
Animals Examined Microscopically	50	50	50	50	50

### ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)	(50)
Gallbladder	(47)	(45)	(44)	(44)	(39)
Intestine Large, Cecum	(42)	(44)	(47)	(46)	(39)
Angiectasis	1 [4.0]				
Fibrosis			1 [2.0]		
Lymphoid Tissue, Hyperplasia			2 [2.0]		
Intestine Large, Colon	(44)	(45)	(47)	(46)	(40)
Fibrosis			1 [3.0]		
Lymphangiectasis	1 [3.0]				
Lymphoid Tissue, Hyperplasia	1 [2.0]		2 [2.5]		2 [2.0]
Intestine Large, Rectum	(42)	(47)	(47)	(46)	(42)
Inflammation, Suppurative		1 [3.0]			
Intestine Small, Duodenum	(39)	(43)	(45)	(48)	(40)
Erosion				1 [3.0]	
Infiltration Cellular, Histiocyte		2 [1.0]	4 [1.0]	37 [1.2]	35 [1.7]
Infiltration Cellular, Mixed Cell		1 [2.0]			
Epithelium, Hyperplasia, Focal				1 [3.0]	2 [3.5]
Epithelium, Hyperplasia, Diffuse		11 [2.0]	18 [1.6]	42 [2.1]	32 [2.1]
Intestine Small, Ileum	(40)	(42)	(44)	(45)	(38)
Cyst			1 [3.0]		
Infiltration Cellular, Polymorphonuclear			1 [2.0]		
Inflammation, Chronic Active		1 [2.0]			
Epithelium, Hyperplasia, Diffuse				1 [3.0]	
Epithelium, Inflammation, Acute				1 [2.0]	
Goblet Cell, Hyperplasia			1 [2.0]		

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Lymphoid Tissue, Hyperplasia			1 [3.0]	2 [2.5]	1 [2.0]
Intestine Small, Jejunum	(41)	(42)	(42)	(46)	(38)
Fibrosis			1 [1.0]		
Infiltration Cellular, Histiocyte				1 [1.0]	
Inflammation, Suppurative		1 [2.0]			
Inflammation, Chronic Active			1 [3.0]		
Epithelium, Hyperplasia, Focal		1 [2.0]			
Epithelium, Hyperplasia, Diffuse				2 [1.5]	1 [2.0]
Lymphoid Tissue, Hyperplasia	2 [2.0]	7 [2.3]	5 [2.4]	8 [2.3]	3 [2.0]
Liver	(50)	(50)	(50)	(50)	(50)
Angiectasis	2 [3.0]				
Basophilic Focus	3		4		1
Basophilic Focus, Multiple	1				1
Clear Cell Focus	8	9	13	11	6
Clear Cell Focus, Multiple	12	8	6	5	1
Congestion			1 [3.0]		
Cyst			1 [3.0]	1 [3.0]	2 [3.0]
Eosinophilic Focus	17	16	13	16	10
Eosinophilic Focus, Multiple	10	10	6	5	2
Fibrosis				2 [2.5]	
Hematopoietic Cell Proliferation		1 [1.0]			
Hemorrhage		1 [3.0]	1 [2.0]	1 [4.0]	
Hepatodiaphragmatic Nodule	1 [2.0]		2 [1.5]		1 [2.0]
Infarct					1 [3.0]
Infiltration Cellular, Histiocyte	1 [1.0]	3 [1.0]	4 [1.0]	4 [1.0]	3 [1.0]
Infiltration Cellular, Lymphocyte	1 [2.0]				
Inflammation, Chronic	1 [1.0]	1 [1.0]	4 [1.3]	2 [1.5]	1 [2.0]
Mixed Cell Focus	3	1		1	3
Mixed Cell Focus, Multiple	1		1		
Necrosis, Focal	1 [3.0]	3 [3.0]	4 [3.0]		5 [2.0]
Bile Duct, Hyperplasia					1 [2.0]
Centrilobular, Necrosis	2 [3.0]				1 [3.0]
Hepatocyte, Vacuolization Cytoplasmic	5 [2.2]	5 [2.2]	1 [1.0]	1 [1.0]	3 [3.0]
Mesentery	(16)	(10)	(9)	(16)	(5)
Fibrosis			2 [3.5]	1 [2.0]	
Inflammation, Suppurative					1 [3.0]
Inflammation, Granulomatous				1 [3.0]	
Fat, Necrosis	11 [2.0]	7 [2.0]	7 [2.4]	12 [1.9]	5 [2.4]
Oral Mucosa	(50)	(50)	(50)	(50)	(50)
Pharyngeal, Hyperplasia, Squamous,			1 [1.0]		

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B6C3F1 MICE MALE	0 MG/L	14.3 MG/L	28.6 MG/L	85.7 MG/L	257.4 MG/L
Focal					
Pancreas	(49)	(49)	(50)	(49)	(48)
Atrophy	1 [1.0]		1 [1.0]	1 [2.0]	1 [3.0]
Cyst					1 [1.0]
Fibrosis			1 [2.0]		
Acinus, Cytoplasmic Alteration		1 [3.0]	1 [3.0]	9 [2.1]	8 [2.6]
Salivary Glands	(49)	(50)	(49)	(50)	(50)
Atrophy			2 [2.5]		
Parotid Gland, Atrophy		1 [2.0]			
Submandibular Gland, Atrophy		1 [1.0]			
Stomach, Forestomach	(50)	(50)	(48)	(50)	(48)
Angiectasis				1 [2.0]	
Cyst		1 [3.0]			
Fibrosis			1 [3.0]		
Ulcer				3 [2.0]	
Epithelium, Hyperplasia	4 [1.8]	3 [2.7]		3 [2.3]	
Stomach, Glandular	(50)	(48)	(48)	(50)	(47)
Atrophy, Focal					2 [2.5]
Cyst	1 [1.0]				
Erosion	1 [1.0]	1 [1.0]			1 [1.0]
Erosion, Focal					1 [1.0]
Hyperplasia, Focal				1 [1.0]	1 [2.0]
Infiltration Cellular, Polymorphonuclear		1 [2.0]			
Ulcer		1 [2.0]			1 [2.0]
Tongue	(50)	(50)	(50)	(50)	(50)
Cyst		1 [3.0]	1 [3.0]	1 [2.0]	
Hyperplasia, Squamous	1 [2.0]	1 [2.0]	1 [2.0]	1 [2.0]	
Inflammation, Chronic		5 [1.0]	4 [1.0]	4 [1.0]	2 [1.0]
Mineralization	1 [2.0]	2 [2.0]	1 [2.0]	2 [1.0]	
Ulcer	1 [1.0]	2 [1.0]			
Artery, Inflammation, Chronic		1 [2.0]	1 [2.0]		
Tooth	(1)	(3)	(0)	(2)	(0)
Malformation	1 [3.0]	2 [2.5]		2 [2.0]	

## CARDIOVASCULAR SYSTEM

Blood Vessel	(2)	(1)	(1)	(1)	(1)
Heart	(50)	(50)	(50)	(50)	(50)
Cardiomyopathy	45 [1.5]	46 [1.6]	43 [1.5]	46 [1.6]	36 [1.3]

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Inflammation, Suppurative	1 [1.0]	1 [2.0]			
Mineralization	1 [1.0]				1 [1.0]
Thrombosis		1 [2.0]	1 [2.0]		3 [2.3]
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(49)	(49)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	1 [1.0]				
Angiectasis			1 [1.0]		1 [2.0]
Degeneration, Fatty		1 [1.0]			
Hyperplasia, Focal			1 [3.0]	2 [1.0]	2 [1.0]
Hypertrophy, Focal	7 [1.1]	12 [1.5]	11 [1.4]	13 [1.4]	9 [1.3]
Capsule, Hemorrhage		1 [2.0]			
Capsule, Hyperplasia	5 [1.8]	13 [1.6]	11 [1.5]	12 [1.5]	7 [1.4]
Adrenal Medulla	(49)	(48)	(50)	(50)	(50)
Hyperplasia			1 [1.0]		
Islets, Pancreatic	(49)	(49)	(50)	(50)	(49)
Hyperplasia	39 [2.1]	40 [2.0]	34 [2.2]	43 [2.0]	20 [1.6]
Parathyroid Gland	(46)	(47)	(45)	(49)	(47)
Cyst		1 [2.0]			1 [3.0]
Pituitary Gland	(49)	(49)	(48)	(50)	(47)
Pars Distalis, Cyst	2 [2.0]	1 [3.0]	2 [1.0]	4 [2.5]	1 [1.0]
Pars Distalis, Hyperplasia, Focal			1 [2.0]	1 [2.0]	2 [1.0]
Thyroid Gland	(50)	(50)	(50)	(50)	(50)
Follicle, Cyst	1 [3.0]	2 [3.0]	1 [2.0]	3 [1.7]	
Follicle, Degeneration, Focal	3 [1.7]	5 [1.0]	4 [1.5]	5 [1.0]	1 [1.0]
Follicular Cell, Hyperplasia, Focal	1 [2.0]	1 [1.0]	1 [1.0]		2 [1.0]
<b>GENERAL BODY SYSTEM</b>					
None					
<b>GENITAL SYSTEM</b>					
Epididymis	(50)	(50)	(50)	(50)	(50)
Degeneration	1 [2.0]				
Granuloma Sperm			1 [2.0]	2 [2.5]	1 [2.0]
Infiltration Cellular, Lymphocyte			1 [2.0]	1 [2.0]	1 [2.0]

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Inflammation, Chronic Preputial Gland Atrophy	1 [2.0] (50)	(50)	(50)	(50)	(50)
Cyst	2 [2.0]	1 [3.0]	3 [2.3]	4 [2.3]	4 [2.8]
Infiltration Cellular, Lymphocyte Inflammation, Chronic Prostate	(50)	1 [2.0] (49)	(50)	(50)	(50)
Infiltration Cellular, Lymphocyte Inflammation, Suppurative Inflammation, Chronic	1 [3.0] 2 [2.5]	2 [1.0] 1 [2.0]	1 [1.0]	1 [2.0]	
Seminal Vesicle Fibrosis	(50)	(50)	(50)	(50)	(50)
Inflammation, Chronic Epithelium, Hyperplasia	2 [2.0]		1 [3.0] 1 [2.0]	1 [2.0]	
Testes Germinal Epithelium, Atrophy Interstitial Cell, Hyperplasia	(50) 2 [2.5] 1 [2.0]	(50) 3 [2.0]	(50) 3 [2.3]	(50) 2 [2.0]	(50) 1 [2.0]
<b>HEMATOPOIETIC SYSTEM</b>					
Bone Marrow Angiectasis Hyperplasia Pigmentation	(49)	(50)	(50)	(50)	(50)
Lymph Node	47 [1.0] (8)	50 [1.0] (4)	50 [1.1] (6)	50 [1.1] (6)	50 [1.3] (5)
Bronchial, Hyperplasia, Lymphoid Iliac, Hemorrhage Iliac, Hyperplasia, Lymphoid Iliac, Hyperplasia, Plasma Cell Iliac, Pigmentation	1 [2.0] 1 [2.0]	1 [2.0]	1 [2.0]	2 [2.5]	1 [3.0] 1 [2.0]
Inguinal, Hyperplasia, Lymphoid Inguinal, Pigmentation Mediastinal, Hemorrhage Mediastinal, Hyperplasia, Histiocytic Mediastinal, Hyperplasia, Lymphoid Popliteal, Hyperplasia, Lymphoid	2 [2.0]	2 [2.0]	1 [2.0]	1 [1.0]	3 [1.0] 1 [2.0]
Renal, Angiectasis Renal, Hyperplasia, Lymphoid Renal, Hyperplasia, Plasma Cell	1 [2.0] 1 [3.0] 2 [2.5]		1 [2.0]	1 [3.0]	1 [4.0]

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B6C3F1 MICE MALE	0 MG/L	14.3 MG/L	28.6 MG/L	85.7 MG/L	257.4 MG/L
Lymph Node, Mandibular	(47)	(49)	(49)	(48)	(46)
Hyperplasia, Lymphoid	6 [2.7]	6 [2.8]	2 [2.5]	4 [2.5]	2 [2.0]
Pigmentation					2 [2.0]
Lymph Node, Mesenteric	(47)	(47)	(49)	(49)	(46)
Ectasia	3 [2.3]				
Fibrosis	1 [4.0]				
Hemorrhage		1 [2.0]	2 [2.0]		
Hyperplasia, Lymphoid		4 [2.0]	2 [2.5]	3 [3.0]	
Infiltration Cellular, Histiocyte	14 [1.2]	38 [1.1]	31 [1.2]	32 [1.5]	42 [2.5]
Inflammation, Granulomatous	2 [3.0]		1 [3.0]		
Necrosis, Lymphoid			1 [2.0]		
Lymph Node, Pancreatic	(5)	(13)	(10)	(8)	(16)
Hyperplasia, Lymphoid				1 [2.0]	1 [1.0]
Infiltration Cellular, Histiocyte		2 [1.0]	2 [1.0]	5 [1.4]	12 [2.3]
Spleen	(49)	(48)	(49)	(49)	(46)
Hematopoietic Cell Proliferation	17 [2.7]	14 [2.5]	13 [2.8]	19 [2.1]	25 [2.5]
Hyperplasia, Histiocytic				1 [1.0]	
Necrosis, Lymphoid				1 [2.0]	
Lymphoid Follicle, Atrophy	1 [3.0]	2 [2.5]	1 [3.0]		3 [3.0]
Lymphoid Follicle, Hyperplasia	1 [3.0]	6 [2.2]	3 [2.0]	5 [1.6]	4 [2.0]
Thymus	(49)	(50)	(46)	(49)	(40)
Atrophy	2 [2.5]	7 [3.0]	2 [2.5]	2 [3.0]	1 [3.0]
Hyperplasia, Lymphoid	3 [2.0]	3 [2.7]	1 [2.0]	2 [1.5]	
Necrosis, Lymphoid			1 [3.0]		
<b>INTEGUMENTARY SYSTEM</b>					
Skin	(50)	(50)	(50)	(50)	(50)
Congestion				1 [2.0]	
Cyst				1 [3.0]	
Cyst Epithelial Inclusion		2		1 [3.0]	1 [3.0]
Edema			1 [3.0]		1 [2.0]
Hyperkeratosis					1 [3.0]
Inflammation, Granulomatous				1 [2.0]	1 [3.0]
Inflammation, Chronic	2 [2.5]			2 [2.5]	1 [3.0]
Ulcer	1 [3.0]			3 [2.3]	1 [3.0]
Dermis, Cyst	1 [3.0]				
Epidermis, Hyperplasia	1 [2.0]			1 [2.0]	1 [3.0]

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<b>MUSCULOSKELETAL SYSTEM</b>					
Bone	(50)	(50)	(50)	(50)	(50)
Hyperostosis	1 [2.0]				
Cranium, Osteopetrosis	1 [2.0]	2 [2.0]	1 [2.0]	1 [2.0]	
Skeletal Muscle	(4)	(2)	(4)	(1)	(0)
Fibrosis			2 [2.5]		
Hemorrhage	1 [2.0]				
<b>NERVOUS SYSTEM</b>					
Brain	(50)	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion			1		
<b>RESPIRATORY SYSTEM</b>					
Lung	(50)	(50)	(50)	(50)	(50)
Congestion	1 [2.0]				
Infiltration Cellular, Histiocyte	1 [1.0]	6 [1.8]	3 [2.3]	1 [2.0]	
Infiltration Cellular, Lymphocyte			1 [2.0]	1 [1.0]	
Inflammation, Granulomatous	1 [2.0]				
Inflammation, Chronic		1 [1.0]			
Metaplasia, Osseous					2 [1.0]
Alveolar Epithelium, Hyperplasia	4 [1.3]	3 [1.3]	2 [1.0]	5 [1.4]	3 [1.3]
Nose	(50)	(50)	(50)	(50)	(50)
Glands, Inflammation				1 [1.0]	
<b>SPECIAL SENSES SYSTEM</b>					
Eye	(48)	(49)	(49)	(50)	(47)
Atrophy	1 [4.0]	1 [4.0]			
Harderian Gland	(50)	(50)	(49)	(50)	(50)
Hyperplasia, Focal		1 [2.0]			
<b>URINARY SYSTEM</b>					
Kidney	(50)	(50)	(50)	(50)	(49)
Atrophy					1 [4.0]

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Cyst	3 [1.7]	6 [2.7]	4 [2.0]	3 [2.0]	2 [1.0]
Fibrosis			1 [2.0]		
Hydronephrosis		1 [3.0]	1 [4.0]	1 [2.0]	1 [3.0]
Infarct	5 [1.4]	1 [1.0]	2 [1.0]	6 [1.2]	4 [1.5]
Infiltration Cellular, Lymphocyte	1 [1.0]	1 [2.0]		1 [1.0]	4 [2.3]
Inflammation, Suppurative		1 [2.0]		1 [2.0]	
Metaplasia, Osseous	1 [1.0]	1 [1.0]		1 [1.0]	
Mineralization			1 [1.0]		
Nephropathy	39 [1.4]	43 [1.7]	45 [1.5]	45 [1.5]	41 [1.6]
Thrombosis	1 [1.0]				
Papilla, Necrosis		1 [3.0]			
Renal Tubule, Atrophy					1 [4.0]
Renal Tubule, Mineralization	1 [1.0]	1 [2.0]			
Renal Tubule, Necrosis	1 [1.0]				
Renal Tubule, Pigmentation	7 [2.4]	3 [2.7]	3 [2.3]		
Urethra	(1)	(1)	(0)	(1)	(0)
Angiectasis	1 [4.0]			1 [3.0]	
Urinary Bladder	(49)	(50)	(50)	(49)	(46)
Fibrosis			1 [2.0]		
Infiltration Cellular, Lymphocyte		1 [1.0]	1 [1.0]		1 [1.0]

\*\*\* END OF MALE \*\*\*

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B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
<b>Disposition Summary</b>					
Animals Initially in Study	50	50	50	50	50
Early Deaths					
Moribund Sacrifice	5		2	2	3
Natural Death	8	11	3	6	5
Survivors					
Natural Death	2	1	1	2	
Terminal Sacrifice	35	38	44	40	42
Animals Examined Microscopically	50	50	50	50	50
<b>ALIMENTARY SYSTEM</b>					
Gallbladder	(44)	(47)	(48)	(45)	(50)
Intestine Large, Colon	(43)	(43)	(48)	(45)	(48)
Edema		1 [4.0]			
Lymphoid Tissue, Hyperplasia	2 [2.0]	3 [2.3]	1 [2.0]	1 [2.0]	2 [2.0]
Intestine Small, Duodenum	(42)	(42)	(48)	(42)	(48)
Cyst				1 [3.0]	
Dilatation					1 [3.0]
Hyperplasia, Lymphoid	1 [2.0]				
Infiltration Cellular, Histiocyte			4 [1.3]	33 [1.2]	40 [2.0]
Epithelium, Hyperplasia, Focal			1 [2.0]	2 [3.0]	
Epithelium, Hyperplasia, Diffuse		16 [1.6]	35 [1.7]	31 [1.6]	42 [2.2]
Lymphoid Tissue, Hyperplasia			1 [1.0]	1 [1.0]	2 [1.5]
Intestine Small, Ileum	(42)	(43)	(47)	(44)	(47)
Inflammation, Suppurative		1 [2.0]			
Intestine Small, Jejunum	(41)	(42)	(48)	(44)	(48)
Fibrosis			1 [2.0]		
Infiltration Cellular, Histiocyte				2 [1.0]	8 [1.6]
Inflammation, Suppurative		4 [2.5]		1 [2.0]	1 [2.0]
Epithelium, Hyperplasia, Focal			1 [2.0]	1 [2.0]	
Epithelium, Hyperplasia, Diffuse		2 [2.0]	1 [2.0]		8 [1.9]
Lymphoid Tissue, Hyperplasia	6 [2.2]	6 [2.2]	6 [2.7]	4 [1.5]	3 [2.7]
Liver	(49)	(50)	(50)	(50)	(50)
Basophilic Focus	3	4	2		1
Basophilic Focus, Multiple			2		
Clear Cell Focus	3	5		2	1

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: CHRONIC

Sodium dichromate dihydrate (VI)

Time Report Requested: 10:37:54

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 09/04/02 / 09/04/02

Species/Strain: MICE/B6C3F1

Lab: SRI

B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Cyst	1 [3.0]	1 [3.0]			
Cyst, Multiple	1 [3.0]				
Eosinophilic Focus	11	13	5	4	4
Eosinophilic Focus, Multiple	3	5	3	1	
Hematopoietic Cell Proliferation	3 [1.0]		1 [1.0]		1 [1.0]
Hemorrhage	1 [2.0]	2 [2.5]			
Infiltration Cellular, Histiocyte	2 [1.0]	15 [1.1]	23 [1.0]	32 [1.0]	45 [1.9]
Infiltration Cellular, Lymphocyte	2 [1.0]		1 [2.0]		2 [1.5]
Inflammation, Chronic	16 [1.1]	21 [1.1]	22 [1.1]	27 [1.1]	24 [1.0]
Mixed Cell Focus	2		4	1	1
Necrosis, Focal	1 [1.0]	1 [2.0]		2 [1.0]	1 [1.0]
Tension Lipidosis			1 [1.0]	1 [2.0]	
Thrombosis					1 [1.0]
Hepatocyte, Vacuolization Cytoplasmic	4 [3.0]	5 [2.6]	5 [1.6]		2 [3.0]
Mesentery	(20)	(23)	(23)	(23)	(9)
Fibrosis				1 [2.0]	
Hemorrhage					1 [3.0]
Inflammation, Granulomatous		1 [2.0]			
Inflammation, Chronic				1 [2.0]	1 [2.0]
Fat, Hemorrhage				1 [2.0]	
Fat, Necrosis	16 [2.1]	20 [2.3]	20 [2.1]	21 [1.9]	6 [1.5]
Pancreas	(48)	(50)	(49)	(50)	(50)
Atrophy	1 [2.0]			1 [2.0]	2 [2.0]
Cyst		1 [3.0]		1 [4.0]	
Necrosis	1 [1.0]				
Acinus, Atrophy					2 [2.5]
Acinus, Cytoplasmic Alteration		6 [2.5]	6 [2.0]	14 [2.4]	32 [2.6]
Acinus, Hyperplasia, Focal				1 [1.0]	
Salivary Glands	(50)	(50)	(50)	(48)	(49)
Atrophy			1 [2.0]		
Fibrosis				1 [2.0]	
Infiltration Cellular, Lymphocyte	1 [1.0]				1 [2.0]
Inflammation, Chronic	2 [2.0]				
Submandibular Gland, Atrophy	1 [2.0]				
Stomach, Forestomach	(49)	(49)	(50)	(48)	(50)
Cyst			2 [2.0]		
Diverticulum				1 [1.0]	
Edema	1 [2.0]		1 [2.0]		
Erosion		1 [1.0]			
Infiltration Cellular, Lymphocyte		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: CHRONIC

Sodium dichromate dihydrate (VI)

Time Report Requested: 10:37:54

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 09/04/02 / 09/04/02

Species/Strain: MICE/B6C3F1

Lab: SRI

B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Inflammation, Chronic					1 [2.0]
Mineralization					2 [1.0]
Ulcer	3 [1.3]	1 [1.0]	1 [1.0]		2 [1.5]
Epithelium, Hyperplasia	2 [2.0]	2 [1.5]		2 [2.0]	3 [2.0]
Stomach, Glandular	(49)	(48)	(50)	(48)	(50)
Cyst	1 [3.0]				1 [2.0]
Degeneration, Cystic			1 [2.0]		
Erosion	2 [1.5]			1 [1.0]	
Fibrosis		1 [2.0]			
Infiltration Cellular, Mixed Cell					1 [1.0]
Inflammation, Suppurative		1 [2.0]			
Ulcer		1 [2.0]			
Glands, Hyperplasia	1 [1.0]				
Tongue	(50)	(50)	(49)	(48)	(50)
Inflammation, Chronic	7 [1.0]	6 [1.0]	3 [1.0]	5 [1.0]	5 [1.0]
Mineralization	1 [1.0]			1 [1.0]	2 [2.0]
Artery, Inflammation, Chronic	1 [2.0]		3 [3.0]		
<b>CARDIOVASCULAR SYSTEM</b>					
Heart	(50)	(50)	(50)	(50)	(50)
Cardiomyopathy	40 [1.3]	34 [1.4]	43 [1.4]	42 [1.3]	43 [1.3]
Mineralization	1 [2.0]				
Artery, Inflammation, Chronic	1 [2.0]				
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(49)	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	3 [1.3]		1 [2.0]	1 [1.0]	3 [1.3]
Hematopoietic Cell Proliferation	1 [1.0]				1 [2.0]
Hyperplasia, Focal			1 [1.0]	1 [1.0]	1 [1.0]
Hyperplasia, Diffuse		1 [2.0]			1 [2.0]
Hypertrophy, Focal		2 [1.5]	1 [1.0]	1 [1.0]	
Vacuolization Cytoplasmic				1 [2.0]	1 [2.0]
Capsule, Hyperplasia	10 [2.2]	4 [1.8]	6 [1.7]	9 [1.8]	14 [2.0]
Adrenal Medulla	(49)	(50)	(50)	(50)	(50)
Hyperplasia			1 [1.0]	1 [3.0]	1 [2.0]
Islets, Pancreatic	(49)	(50)	(50)	(50)	(50)
Hyperplasia	10 [1.5]	5 [1.2]	3 [1.3]	5 [1.2]	7 [1.3]

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: CHRONIC

Sodium dichromate dihydrate (VI)

Time Report Requested: 10:37:54

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 09/04/02 / 09/04/02

Species/Strain: MICE/B6C3F1

Lab: SRI

B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Parathyroid Gland	(48)	(49)	(50)	(44)	(49)
Cyst		1 [3.0]			1 [3.0]
Pituitary Gland	(48)	(48)	(48)	(48)	(49)
Pars Distalis, Angiectasis		1 [3.0]			
Pars Distalis, Cyst				1 [1.0]	
Pars Distalis, Hyperplasia, Focal	5 [1.2]	3 [1.0]	3 [1.3]	2 [1.0]	1 [1.0]
Pars Intermedia, Fibrosis	1 [2.0]				
Rathke's Cleft, Cyst		1 [3.0]		1 [3.0]	
Thyroid Gland	(50)	(50)	(50)	(49)	(50)
Infiltration Cellular, Lymphocyte	1 [1.0]		1 [1.0]		
Infiltration Cellular, Mixed Cell	1 [1.0]	2 [1.0]			
Inflammation, Suppurative, Focal				1 [1.0]	
Inflammation, Chronic				1 [1.0]	
Follicle, Cyst	2 [1.5]	1 [3.0]	3 [1.7]	2 [2.5]	2 [3.0]
Follicle, Degeneration, Focal	12 [1.2]	11 [1.1]	14 [1.4]	10 [1.4]	11 [1.5]
Follicular Cell, Hyperplasia					1 [1.0]
Follicular Cell, Hyperplasia, Focal		1 [1.0]	1 [1.0]		2 [1.5]
Follicular Cell, Hypertrophy					1 [2.0]
<b>GENERAL BODY SYSTEM</b>					
Tissue NOS	(1)	(0)	(0)	(0)	(0)
<b>GENITAL SYSTEM</b>					
Clitoral Gland	(50)	(50)	(50)	(50)	(48)
Cyst	1 [2.0]		1 [2.0]	1 [2.0]	
Inflammation, Chronic				1 [2.0]	
Ovary	(50)	(49)	(47)	(48)	(49)
Angiectasis		1 [4.0]	1 [2.0]	1 [1.0]	2 [2.0]
Atrophy	1 [2.0]				2 [2.5]
Cyst	10 [2.9]	13 [2.5]	12 [3.0]	11 [2.7]	10 [3.0]
Hematocyst				1 [3.0]	
Hemorrhage	1 [2.0]	9 [1.4]	2 [2.0]	4 [1.8]	3 [3.0]
Hyperplasia					1 [2.0]
Infiltration Cellular, Lymphocyte	1 [2.0]				
Mineralization					1 [2.0]
Thrombosis					1 [2.0]
Uterus	(50)	(50)	(50)	(50)	(50)

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: CHRONIC

Sodium dichromate dihydrate (VI)

Time Report Requested: 10:37:54

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 09/04/02 / 09/04/02

Species/Strain: MICE/B6C3F1

Lab: SRI

B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Angiectasis			1 [3.0]	1 [3.0]	
Hyperplasia, Cystic	43 [2.4]	45 [2.3]	42 [2.0]	43 [2.1]	45 [2.2]
Inflammation, Suppurative	1 [2.0]				
Serosa, Cyst	1 [2.0]				
Vagina	(1)	(0)	(0)	(0)	(0)
<b>HEMATOPOIETIC SYSTEM</b>					
Bone Marrow	(50)	(50)	(50)	(50)	(50)
Fibrosis					1 [2.0]
Hemorrhage				1 [2.0]	
Hyperplasia	5 [2.6]	3 [1.3]	5 [2.8]	1 [3.0]	1 [3.0]
Hyperplasia, Reticulum Cell				1 [2.0]	
Pigmentation	47 [1.1]	47 [1.0]	49 [1.1]	49 [1.2]	50 [1.7]
Lymph Node	(10)	(7)	(6)	(5)	(6)
Bronchial, Hyperplasia, Lymphoid	1 [2.0]	1 [4.0]	1 [2.0]		
Iliac, Hematopoietic Cell Proliferation	1 [2.0]				
Iliac, Hyperplasia, Lymphoid	1 [2.0]		2 [2.5]	1 [2.0]	1 [3.0]
Iliac, Pigmentation	1 [1.0]				
Mediastinal, Hyperplasia, Lymphoid	4 [2.5]	1 [3.0]	2 [3.0]		1 [3.0]
Renal, Hyperplasia, Lymphoid			2 [2.5]		
Lymph Node, Mandibular	(50)	(48)	(49)	(48)	(48)
Ectasia	1 [2.0]				
Hyperplasia, Lymphoid	4 [2.0]	2 [3.5]	4 [2.0]	6 [2.5]	3 [2.3]
Lymph Node, Mesenteric	(46)	(48)	(46)	(50)	(50)
Ectasia	6 [2.3]	1 [3.0]	2 [3.0]	2 [2.0]	2 [3.0]
Hematopoietic Cell Proliferation	1 [2.0]		1 [2.0]		
Hemorrhage			1 [4.0]		1 [3.0]
Hyperplasia, Lymphoid	3 [2.3]	4 [2.3]	6 [2.0]	4 [2.3]	2 [2.5]
Infiltration Cellular, Histiocyte	3 [1.0]	29 [1.3]	26 [1.1]	40 [1.9]	42 [2.7]
Mineralization				1 [2.0]	
Lymph Node, Pancreatic	(14)	(12)	(15)	(14)	(13)
Hyperplasia, Lymphoid	1 [3.0]	1 [3.0]	2 [2.5]		1 [3.0]
Infiltration Cellular, Histiocyte		1 [1.0]	2 [1.5]	7 [1.9]	8 [2.5]
Spleen	(48)	(48)	(50)	(50)	(50)
Hematopoietic Cell Proliferation	15 [1.8]	24 [2.3]	19 [2.0]	15 [2.4]	15 [2.3]
Necrosis				1 [2.0]	
Lymphoid Follicle, Atrophy		1 [3.0]			
Lymphoid Follicle, Hyperplasia	17 [2.2]	19 [2.2]	28 [1.9]	22 [2.2]	18 [2.2]

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: CHRONIC

Sodium dichromate dihydrate (VI)

Time Report Requested: 10:37:54

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 09/04/02 / 09/04/02

Species/Strain: MICE/B6C3F1

Lab: SRI

B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Thymus	(46)	(38)	(43)	(40)	(47)
Angiectasis				1 [2.0]	
Atrophy	2 [2.0]			1 [3.0]	1 [2.0]
Hyperplasia, Lymphoid	30 [1.7]	20 [1.6]	17 [1.8]	25 [1.8]	32 [1.7]
<b>INTEGUMENTARY SYSTEM</b>					
Mammary Gland	(50)	(48)	(50)	(50)	(50)
Cyst	3 [2.3]				1 [3.0]
Hyperplasia				1 [2.0]	1 [1.0]
Duct, Cyst				1 [3.0]	
Skin	(50)	(50)	(50)	(49)	(50)
Edema			1 [3.0]		
Inflammation, Granulomatous	1 [2.0]				
Inflammation, Chronic			1 [3.0]		
Ulcer		1 [3.0]	1 [3.0]		
Dermis, Cyst	1 [2.0]			1 [3.0]	
<b>MUSCULOSKELETAL SYSTEM</b>					
Bone	(50)	(50)	(50)	(50)	(50)
Fibrosis			1 [2.0]		
Cranium, Fibrosis					1 [3.0]
Cranium, Osteopetrosis	1 [2.0]	1 [2.0]			
Skeletal Muscle	(2)	(6)	(1)	(1)	(1)
Fibrosis					1 [2.0]
<b>NERVOUS SYSTEM</b>					
Brain	(50)	(50)	(50)	(50)	(50)
Compression	1 [2.0]		2 [2.5]	2 [2.5]	
Cerebellum, Vacuolization Cytoplasmic	1 [2.0]				
Cerebrum, Edema	1 [2.0]				
<b>RESPIRATORY SYSTEM</b>					
Lung	(50)	(50)	(50)	(50)	(50)
Fibrosis	1 [1.0]				

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Test Type: CHRONIC

Sodium dichromate dihydrate (VI)

Time Report Requested: 10:37:54

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First Dose M/F: 09/04/02 / 09/04/02

Species/Strain: MICE/B6C3F1

Lab: SRI

B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Hemorrhage		1 [2.0]		1 [1.0]	
Infiltration Cellular, Histiocyte	2 [2.0]		2 [2.0]		2 [2.0]
Infiltration Cellular, Lymphocyte	1 [1.0]	4 [1.3]	6 [1.2]	4 [1.3]	5 [1.2]
Infiltration Cellular, Mixed Cell				1 [2.0]	
Metaplasia, Osseous	1 [1.0]				
Alveolar Epithelium, Hyperplasia	1 [1.0]		2 [1.5]		1 [1.0]
Capillary, Infiltration Cellular, Mixed Cell					1 [4.0]
Nose	(50)	(50)	(50)	(50)	(50)
<b>SPECIAL SENSES SYSTEM</b>					
Eye	(49)	(48)	(48)	(46)	(50)
Atrophy				1 [3.0]	1 [3.0]
Harderian Gland	(49)	(49)	(50)	(50)	(50)
Hyperplasia, Focal	1 [1.0]		1 [1.0]	1 [1.0]	
Inflammation, Chronic				1 [2.0]	
<b>URINARY SYSTEM</b>					
Kidney	(50)	(49)	(50)	(49)	(50)
Accumulation, Hyaline Droplet			1 [3.0]		
Calculus Micro Observation Only		4 [1.5]		3 [1.3]	5 [1.8]
Casts Protein				1 [1.0]	
Cyst		2 [2.5]			1 [3.0]
Hemorrhage		1 [3.0]			1 [2.0]
Hydronephrosis		1 [3.0]		2 [2.0]	1 [2.0]
Infarct	4 [1.0]		3 [1.0]	2 [2.0]	2 [1.0]
Infiltration Cellular			1 [1.0]	1 [1.0]	2 [1.5]
Infiltration Cellular, Lymphocyte	10 [1.1]	5 [1.4]	10 [1.4]	10 [1.3]	7 [1.4]
Inflammation, Chronic		1 [1.0]	2 [1.0]		
Metaplasia, Osseous	1 [1.0]	1 [1.0]		3 [1.0]	1 [1.0]
Mineralization		2 [1.0]			1 [2.0]
Nephropathy	21 [1.2]	30 [1.2]	30 [1.0]	26 [1.2]	28 [1.2]
Papilla, Necrosis			1 [1.0]		1 [1.0]
Renal Tubule, Accumulation, Hyaline Droplet					1 [3.0]
Renal Tubule, Mineralization	1 [2.0]				
Renal Tubule, Pigmentation					1 [1.0]
Ureter	(0)	(0)	(0)	(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)



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

Date Report Reqsted: 10/04/2007

Test Type: CHRONIC

Sodium dichromate dihydrate (VI)

Time Report Reqsted: 10:37:54

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 09/04/02 / 09/04/02

Species/Strain: MICE/B6C3F1

Lab: SRI

B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Urinary Bladder Infiltration Cellular, Lymphocyte	(50) 42 [1.2]	(48) 33 [1.1]	(50) 37 [1.1]	(48) 27 [1.1]	(49) 38 [1.4]

\*\*\* 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)