



Test Type: CHRONIC

Sodium dichromate dihydrate (VI)

Time Report Requested: 10:38:19

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 10/02/02 / 10/02/02

Species/Strain: RATS/F 344

Lab: SRI

FISCHER 344 RATS MALE	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	16	15	16	9	16
Natural Death	6	5	3	5	4
Survivors					
Terminal Sacrifice	28	30	30	36	29
Animals Examined Microscopically	50	50	49	50	49
<b>ALIMENTARY SYSTEM</b>					
Intestine Large, Cecum	(45)	(48)	(46)	(47)	(48)
Lipoma				1 (2%)	
Intestine Large, Colon	(47)	(49)	(49)	(48)	(48)
Leiomyosarcoma					1 (2%)
Intestine Small, Duodenum	(48)	(48)	(47)	(46)	(48)
Intestine Small, Ileum	(45)	(46)	(46)	(45)	(47)
Intestine Small, Jejunum	(44)	(47)	(45)	(46)	(46)
Leiomyoma		1 (2%)			
Leiomyosarcoma		1 (2%)			
Leiomyosarcoma, Metastatic, Intestine Large, Colon					1 (2%)
Liver	(50)	(50)	(49)	(50)	(49)
Hepatocellular Adenoma		1 (2%)	2 (4%)		1 (2%)
Leiomyosarcoma, Metastatic, Spleen					1 (2%)
Mesentery	(12)	(4)	(15)	(14)	(15)
Hemangioma					1 (7%)
Oral Mucosa	(50)	(50)	(49)	(50)	(49)
Squamous Cell Carcinoma					6 (12%)
Squamous Cell Papilloma					1 (2%)
Pancreas	(50)	(50)	(49)	(50)	(49)
Mixed Tumor Benign				1 (2%)	
Acinus, Adenoma	1 (2%)	2 (4%)	4 (8%)	2 (4%)	1 (2%)
Acinus, Adenoma, Multiple			2 (4%)		1 (2%)
Salivary Glands	(50)	(50)	(49)	(49)	(49)
Schwannoma Malignant, Metastatic, Peripheral Nerve					1 (2%)

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

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FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Stomach, Forestomach	(50)	(50)	(49)	(50)	(49)
Stomach, Glandular	(50)	(50)	(49)	(50)	(49)
Lipoma	1 (2%)				1 (2%)
Tongue	(49)	(50)	(47)	(49)	(48)
Squamous Cell Carcinoma		1 (2%)			
Squamous Cell Papilloma					1 (2%)
Tooth	(0)	(0)	(0)	(1)	(4)
Squamous Cell Carcinoma, Metastatic, Oral Mucosa					1 (25%)
<b>CARDIOVASCULAR SYSTEM</b>					
Blood Vessel	(0)	(4)	(0)	(0)	(3)
Heart	(50)	(50)	(49)	(50)	(49)
Schwannoma Benign					1 (2%)
Schwannoma Malignant				1 (2%)	1 (2%)
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(50)	(50)	(49)	(50)	(49)
Adenoma				1 (2%)	
Adrenal Medulla	(49)	(50)	(49)	(50)	(49)
Pheochromocytoma Benign	5 (10%)	13 (26%)	10 (20%)	4 (8%)	3 (6%)
Pheochromocytoma Malignant	1 (2%)		2 (4%)	3 (6%)	1 (2%)
Bilateral, Pheochromocytoma Benign	1 (2%)		4 (8%)	1 (2%)	1 (2%)
Islets, Pancreatic	(50)	(50)	(49)	(50)	(49)
Adenoma	4 (8%)	6 (12%)	3 (6%)	7 (14%)	5 (10%)
Adenoma, Multiple		1 (2%)			
Carcinoma			1 (2%)		
Parathyroid Gland	(46)	(46)	(46)	(49)	(48)
Adenoma					1 (2%)
Pituitary Gland	(50)	(50)	(49)	(50)	(49)
Pars Distalis, Adenoma	15 (30%)	19 (38%)	19 (39%)	10 (20%)	16 (33%)
Pars Distalis, Adenoma, Multiple	1 (2%)		1 (2%)		
Pars Intermedia, Adenoma			1 (2%)		
Thyroid Gland	(50)	(50)	(49)	(50)	(49)
C-cell, Adenoma	5 (10%)	6 (12%)	3 (6%)	7 (14%)	7 (14%)
C-cell, Carcinoma	1 (2%)	2 (4%)	1 (2%)	3 (6%)	2 (4%)
Follicular Cell, Carcinoma				1 (2%)	3 (6%)

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

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FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
<b>GENERAL BODY SYSTEM</b>					
None					
<b>GENITAL SYSTEM</b>					
Epididymis	(50)	(50)	(49)	(50)	(49)
Preputial Gland	(50)	(50)	(49)	(50)	(49)
Adenoma	4 (8%)	3 (6%)	3 (6%)	2 (4%)	3 (6%)
Carcinoma	1 (2%)	4 (8%)	7 (14%)	3 (6%)	2 (4%)
Prostate	(50)	(50)	(49)	(50)	(49)
Adenoma	2 (4%)		2 (4%)		1 (2%)
Seminal Vesicle	(50)	(50)	(49)	(50)	(49)
Testes	(50)	(50)	(49)	(50)	(49)
Bilateral, Interstitial Cell, Adenoma	41 (82%)	34 (68%)	32 (65%)	39 (78%)	35 (71%)
Interstitial Cell, Adenoma	7 (14%)	10 (20%)	11 (22%)	10 (20%)	7 (14%)
<b>HEMATOPOIETIC SYSTEM</b>					
Bone Marrow	(50)	(50)	(49)	(50)	(49)
Lymph Node	(14)	(7)	(6)	(11)	(9)
Deep Cervical, Carcinoma, Metastatic, Thyroid Gland					1 (11%)
Lymph Node, Mandibular	(0)	(0)	(5)	(2)	(2)
Lymph Node, Mesenteric	(49)	(50)	(49)	(50)	(49)
Lymph Node, Pancreatic	(32)	(34)	(34)	(36)	(33)
Spleen	(50)	(50)	(49)	(50)	(49)
Hemangiosarcoma				1 (2%)	
Leiomyosarcoma					1 (2%)
Thymus	(48)	(50)	(46)	(49)	(47)
Thymoma Malignant				1 (2%)	
<b>INTEGUMENTARY SYSTEM</b>					
Mammary Gland	(50)	(49)	(48)	(50)	(49)
Carcinoma	1 (2%)				1 (2%)
Fibroadenoma	2 (4%)	2 (4%)	6 (13%)	3 (6%)	1 (2%)

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Fibroadenoma, Multiple			1 (2%)		
Skin	(50)	(50)	(49)	(50)	(49)
Basal Cell Adenoma	2 (4%)	3 (6%)		1 (2%)	1 (2%)
Basal Cell Carcinoma		2 (4%)	2 (4%)		
Keratoacanthoma	2 (4%)	3 (6%)	1 (2%)	4 (8%)	1 (2%)
Squamous Cell Carcinoma	1 (2%)				
Squamous Cell Papilloma	1 (2%)			1 (2%)	1 (2%)
Trichoepithelioma			1 (2%)		
Sebaceous Gland, Adenoma				1 (2%)	
Subcutaneous Tissue, Fibroma	7 (14%)	11 (22%)	13 (27%)	7 (14%)	7 (14%)
Subcutaneous Tissue, Fibroma, Multiple	1 (2%)	1 (2%)		2 (4%)	1 (2%)
Subcutaneous Tissue, Fibrosarcoma	1 (2%)	1 (2%)	1 (2%)		1 (2%)
Subcutaneous Tissue, Fibrous Histiocytoma				1 (2%)	
Subcutaneous Tissue, Hemangioma	1 (2%)				
Subcutaneous Tissue, Lipoma		1 (2%)	1 (2%)		
Subcutaneous Tissue, Sarcoma	2 (4%)				
Subcutaneous Tissue, Schwannoma Malignant, Multiple		1 (2%)			
<b>MUSCULOSKELETAL SYSTEM</b>					
Bone	(50)	(50)	(49)	(50)	(49)
Chordoma					1 (2%)
Osteosarcoma					1 (2%)
Skeletal Muscle	(3)	(2)	(2)	(0)	(1)
<b>NERVOUS SYSTEM</b>					
Brain	(50)	(50)	(49)	(50)	(49)
Astrocytoma Malignant		1 (2%)			
Peripheral Nerve	(4)	(6)	(5)	(2)	(5)
Schwannoma Malignant					1 (20%)
Spinal Cord	(4)	(6)	(5)	(2)	(5)
<b>RESPIRATORY SYSTEM</b>					
Lung	(50)	(50)	(49)	(50)	(49)
Alveolar/Bronchiolar Adenoma	3 (6%)	3 (6%)	2 (4%)	1 (2%)	1 (2%)

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FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Alveolar/Bronchiolar Adenoma, Multiple	1 (2%)				
Alveolar/Bronchiolar Carcinoma			1 (2%)		1 (2%)
Basal Cell Carcinoma, Metastatic, Skin		1 (2%)			
Carcinoma, Metastatic, Thyroid Gland					1 (2%)
Chordoma, Metastatic, Uncertain Primary Site					1 (2%)
Fibrosarcoma, Metastatic, Skin		1 (2%)			
Osteosarcoma, Metastatic, Uncertain Primary Site					2 (4%)
Sarcoma, Metastatic, Skin	1 (2%)				
Sarcoma, Metastatic, Uncertain Primary Site		1 (2%)			
Nose	(50)	(50)	(49)	(50)	(49)
<b>SPECIAL SENSES SYSTEM</b>					
Eye	(50)	(50)	(49)	(50)	(49)
Squamous Cell Carcinoma, Metastatic, Oral Mucosa					1 (2%)
Harderian Gland	(50)	(50)	(49)	(50)	(49)
Squamous Cell Carcinoma, Metastatic, Oral Mucosa					2 (4%)
<b>URINARY SYSTEM</b>					
Kidney	(50)	(50)	(49)	(50)	(49)
Urinary Bladder	(50)	(50)	(49)	(50)	(49)
<b>SYSTEMIC LESIONS</b>					
Multiple Organs	*(50)	*(50)	*(49)	*(50)	*(49)
Histiocytic Sarcoma			1 (2%)		
Leukemia Mononuclear	26 (52%)	18 (36%)	22 (45%)	17 (34%)	19 (39%)
Mesothelioma Malignant	2 (4%)		2 (4%)	1 (2%)	

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

\* Number of animals with any tissue examined microscopically

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FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
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**Tumor Summary for Males**

<b>Total Animals with Primary Neoplasms (b)</b>	50	48	49	50	49
<b>Total Primary Neoplasms</b>	143	151	162	137	142
<b>Total Animals with Benign Neoplasms</b>	49	47	47	49	49
<b>Total Benign Neoplasms</b>	107	120	122	105	100
<b>Total Animals with Malignant Neoplasms</b>	29	25	31	29	31
<b>Total Malignant Neoplasms</b>	36	31	40	32	42
<b>Total Animals with Metastatic Neoplasms</b>	1	3			6
<b>Total Metastatic Neoplasms</b>	1	3			12
<b>Total Animals with Malignant Neoplasms Uncertain Primary Site</b>		1			3
<b>Total Animals with Neoplasms Uncertain-Benign or Malignant</b>					
<b>Total Uncertain Neoplasms</b>					

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

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

b - Primary tumors: all tumors except metastatic tumors

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FISCHER 344 RATS 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	12	15	9	10	18
Natural Death	5	3	9	4	1
Survivors					
Natural Death	1				
Terminal Sacrifice	32	32	32	36	31
Animals Examined Microscopically	50	50	50	50	50
<b>ALIMENTARY SYSTEM</b>					
Intestine Large, Cecum	(46)	(47)	(48)	(47)	(50)
Intestine Large, Colon	(49)	(49)	(49)	(48)	(50)
Adenoma		1 (2%)			
Intestine Small, Duodenum	(46)	(49)	(48)	(46)	(50)
Leiomyoma	1 (2%)				
Intestine Small, Ileum	(45)	(47)	(44)	(47)	(50)
Intestine Small, Jejunum	(46)	(46)	(44)	(45)	(49)
Liver	(50)	(50)	(50)	(50)	(50)
Hepatocellular Adenoma	1 (2%)	1 (2%)			
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla		1 (2%)			
Sarcoma, Metastatic, Tissue Nos					1 (2%)
Mesentery	(11)	(13)	(12)	(15)	(10)
Sarcoma				1 (7%)	
Oral Mucosa	(50)	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma				2 (4%)	11 (22%)
Pancreas	(50)	(50)	(50)	(50)	(50)
Mixed Tumor Benign			1 (2%)		
Salivary Glands	(50)	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)
Tongue	(45)	(49)	(48)	(48)	(48)
Squamous Cell Carcinoma				1 (2%)	
Squamous Cell Carcinoma, Metastatic, Oral Mucosa					2 (4%)

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Squamous Cell Papilloma	1 (2%)	1 (2%)			
<b>CARDIOVASCULAR SYSTEM</b>					
Heart	(50)	(50)	(50)	(50)	(50)
Schwannoma Malignant	1 (2%)	1 (2%)			
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(50)	(50)	(50)	(50)	(50)
Adenoma	1 (2%)	1 (2%)			
Adrenal Medulla	(49)	(50)	(49)	(50)	(50)
Pheochromocytoma Benign	2 (4%)	1 (2%)	2 (4%)	4 (8%)	
Pheochromocytoma Benign, Multiple		1 (2%)			
Pheochromocytoma Malignant	1 (2%)	1 (2%)	1 (2%)	1 (2%)	
Pheochromocytoma Malignant, Multiple		1 (2%)			
Islets, Pancreatic	(50)	(50)	(50)	(50)	(50)
Adenoma	2 (4%)	1 (2%)	2 (4%)	2 (4%)	2 (4%)
Adenoma, Multiple				1 (2%)	
Parathyroid Gland	(46)	(47)	(47)	(45)	(47)
Pituitary Gland	(50)	(50)	(50)	(50)	(49)
Pars Distalis, Adenoma	26 (52%)	29 (58%)	25 (50%)	21 (42%)	12 (24%)
Pars Distalis, Adenoma, Multiple	2 (4%)			1 (2%)	
Pars Distalis, Carcinoma	2 (4%)	1 (2%)		1 (2%)	1 (2%)
Pars Intermedia, Adenoma					1 (2%)
Thyroid Gland	(50)	(50)	(50)	(50)	(50)
C-cell, Adenoma	8 (16%)	5 (10%)	7 (14%)	4 (8%)	9 (18%)
C-cell, Carcinoma	2 (4%)			2 (4%)	2 (4%)
Follicular Cell, Adenoma					1 (2%)
Follicular Cell, Carcinoma		1 (2%)	1 (2%)		1 (2%)
<b>GENERAL BODY SYSTEM</b>					
Tissue NOS	(0)	(0)	(0)	(0)	(2)
Abdominal, Sarcoma					1 (50%)
<b>GENITAL SYSTEM</b>					

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Clitoral Gland	(50)	(50)	(50)	(50)	(50)
Adenoma	2 (4%)	9 (18%)	8 (16%)	5 (10%)	4 (8%)
Carcinoma	8 (16%)	8 (16%)	5 (10%)	3 (6%)	5 (10%)
Carcinoma, Multiple		3 (6%)			
Fibrosarcoma		1 (2%)			
Bilateral, Adenoma					1 (2%)
Ovary	(49)	(50)	(50)	(50)	(50)
Granulosa Cell Tumor Benign		1 (2%)		1 (2%)	
Uterus	(49)	(50)	(50)	(50)	(50)
Adenoma	1 (2%)				
Leiomyosarcoma			1 (2%)		
Polyp Stromal	10 (20%)	14 (28%)	13 (26%)	15 (30%)	8 (16%)
Polyp Stromal, Multiple		1 (2%)	1 (2%)	2 (4%)	
Schwannoma Malignant			1 (2%)	1 (2%)	1 (2%)
Schwannoma Malignant, Metastatic, Uterus	1 (2%)				
Vagina	(8)	(12)	(4)	(4)	(10)
Polyp		1 (8%)			
Schwannoma Malignant					1 (10%)
Schwannoma Malignant, Metastatic, Vagina	1 (13%)				
<b>HEMATOPOIETIC SYSTEM</b>					
Bone Marrow	(50)	(50)	(49)	(50)	(50)
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla		1 (2%)			
Lymph Node	(8)	(11)	(9)	(4)	(11)
Lymph Node, Mandibular	(4)	(0)	(3)	(2)	(3)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)	(50)
Lymph Node, Pancreatic	(29)	(36)	(30)	(34)	(33)
Spleen	(50)	(50)	(50)	(50)	(50)
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla		1 (2%)			
Thymus	(50)	(49)	(49)	(48)	(47)
<b>INTEGUMENTARY SYSTEM</b>					
Mammary Gland	(50)	(50)	(50)	(50)	(50)

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Adenoma	2 (4%)	1 (2%)	3 (6%)		
Carcinoma		3 (6%)	1 (2%)	1 (2%)	
Fibroadenoma	13 (26%)	16 (32%)	20 (40%)	19 (38%)	14 (28%)
Fibroadenoma, Multiple	24 (48%)	15 (30%)	17 (34%)	11 (22%)	9 (18%)
Skin	(50)	(50)	(50)	(50)	(50)
Basal Cell Carcinoma		1 (2%)			
Keratoacanthoma	1 (2%)				
Sebaceous Gland, Adenoma	1 (2%)		1 (2%)		
Subcutaneous Tissue, Fibroma	1 (2%)		4 (8%)	1 (2%)	3 (6%)
Subcutaneous Tissue, Fibroma, Multiple				1 (2%)	
Subcutaneous Tissue, Fibrosarcoma		1 (2%)			
Subcutaneous Tissue, Lipoma		1 (2%)		1 (2%)	
Subcutaneous Tissue, Liposarcoma			1 (2%)		
Subcutaneous Tissue, Sarcoma				1 (2%)	
Subcutaneous Tissue, Schwannoma		1 (2%)			
Malignant					
<b>MUSCULOSKELETAL SYSTEM</b>					
Bone	(50)	(50)	(50)	(50)	(50)
<b>NERVOUS SYSTEM</b>					
Brain	(50)	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Pituitary Gland	1 (2%)	1 (2%)		1 (2%)	1 (2%)
Squamous Cell Carcinoma, Metastatic, Oral Mucosa					1 (2%)
<b>RESPIRATORY SYSTEM</b>					
Larynx	(0)	(0)	(0)	(1)	(1)
Squamous Cell Carcinoma					1 (100%)
Lung	(50)	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	4 (8%)	3 (6%)	2 (4%)	3 (6%)	3 (6%)
Carcinoma, Metastatic, Clitoral Gland		1 (2%)			
Carcinoma, Metastatic, Uncertain Primary Site					1 (2%)
Squamous Cell Carcinoma, Metastatic, Oral Mucosa					2 (4%)

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Nose Squamous Cell Carcinoma, Metastatic, Oral Mucosa	(50)	(50)	(50)	(50)	(50) 1 (2%)
<b>SPECIAL SENSES SYSTEM</b>					
Eye	(50)	(50)	(50)	(50)	(50)
Harderian Gland Adenoma	(50)	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma, Metastatic, Oral Mucosa				1 (2%) 1 (2%)	1 (2%)
Zymbal's Gland Carcinoma	(1) 1 (100%)	(0)	(0)	(0)	(1) 1 (100%)
<b>URINARY SYSTEM</b>					
Kidney	(50)	(50)	(50)	(50)	(50)
Urinary Bladder Papilloma	(49)	(50)	(50)	(50)	(49) 1 (2%)
<b>SYSTEMIC LESIONS</b>					
Multiple Organs Leukemia Mononuclear	*(50) 8 (16%)	*(50) 18 (36%)	*(50) 13 (26%)	*(50) 7 (14%)	*(50) 11 (22%)

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

\* Number of animals with any tissue examined microscopically

Test Type: CHRONIC

Sodium dichromate dihydrate (VI)

Time Report Requested: 10:38:19

Route: DOSED WATER

CAS Number: 7789-12-0

First Dose M/F: 10/02/02 / 10/02/02

Species/Strain: RATS/F 344

Lab: SRI

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FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
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**Tumor Summary for Females**

<b>Total Animals with Primary Neoplasms (b)</b>	49	48	50	49	47
<b>Total Primary Neoplasms</b>	126	144	130	114	104
<b>Total Animals with Benign Neoplasms</b>	47	46	47	46	37
<b>Total Benign Neoplasms</b>	103	103	106	93	68
<b>Total Animals with Malignant Neoplasms</b>	19	30	19	18	30
<b>Total Malignant Neoplasms</b>	23	41	24	21	36
<b>Total Animals with Metastatic Neoplasms</b>	2	3		2	8
<b>Total Metastatic Neoplasms</b>	3	5		2	10
<b>Total Animals with Malignant Neoplasms Uncertain Primary Site</b>					1
<b>Total Animals with Neoplasms Uncertain-Benign or Malignant</b>					
<b>Total Uncertain Neoplasms</b>					

\*\*\* END OF REPORT \*\*\*

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

b - Primary tumors: all tumors except metastatic tumors