

Experiment Number: 99027-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: Chromium picolinate monohydrate

CAS Number: 27882-76-4

Date Report Requested: 10/22/2014

Time Report Requested: 20:27:01

First Dose M/F: NA / NA

Lab: SRI

C Number:	C99027
Lock Date:	06/10/2002
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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F 344/N Rat MALE	0 PPM	80 PPM	240 PPM	2000 PPM	10000 PPM	50000 PPM
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	2	3	1	1	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(2)	(2)	(1)	(0)	(10)
Hematopoietic Cell Proliferation, Focal	5 (50%)					
Hepatodiaphragmatic Nodule		2 (100%)	2 (100%)	1 (100%)		2 (20%)
Inflammation, Chronic						1 (10%)
Inflammation, Chronic, Focal	1 (10%)			1 (100%)		2 (20%)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Acinus, Atrophy, Focal	1 (10%)					
Duct, Hyperplasia, Focal						1 (10%)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy, Focal						1 (10%)
Inflammation, Chronic, Focal						1 (10%)
Parotid G1, Basophilic Focus	5 (50%)					5 (50%)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)

CARDIOVASCULAR SYSTEM

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

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F 344/N Rat MALE	0 PPM	80 PPM	240 PPM	2000 PPM	10000 PPM	50000 PPM
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	6 (60%)					5 (50%)
Cardiomyopathy, Focal	3 (30%)					4 (40%)
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Pars Intermed, Cyst						1 (10%)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(1)	(10)
Duct, Cyst					1 (100%)	
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(1)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(1)
Mediastinal, Hemorrhage						1 (100%)
Lymph Node, Mandibular	(1)	(0)	(0)	(0)	(0)	(0)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Granulomatous	2 (20%)					
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)

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INTEGUMENTARY SYSTEM						
Mammary Gland	(8)	(0)	(0)	(0)	(0)	(6)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Alveolus, Infiltration Cellular, Histiocyte, Focal						1 (10%)
Inflammation, Chronic, Focal	1 (10%)					2 (20%)
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic, Focal	1 (10%)					
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Medulla, Mineralization						1 (10%)
Nephropathy	2 (20%)					4 (40%)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

END OF MALE DATA

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F 344/N Rat FEMALE	0 PPM	80 PPM	240 PPM	2000 PPM	10000 PPM	50000 PPM
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	1		5	2	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Serosa, Inflammation, Granulomatous, Focal						1 (10%)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(1)	(0)	(2)	(2)	(10)
Hematopoietic Cell Proliferation, Focal	1 (10%)					2 (20%)
Hepatodiaphragmatic Nodule	2 (20%)	1 (100%)		2 (100%)	2 (100%)	
Inflammation, Chronic, Focal	3 (30%)					6 (60%)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Acinus, Atrophy, Focal	1 (10%)					
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Parotid G1, Basophilic Focus	3 (30%)					1 (10%)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Muscularis, Inflammation	1 (10%)					
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
CARDIOVASCULAR SYSTEM						
Heart	(10)	(0)	(0)	(0)	(0)	(10)

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F 344/N Rat FEMALE	0 PPM	80 PPM	240 PPM	2000 PPM	10000 PPM	50000 PPM
Cardiomyopathy	2 (20%)					3 (30%)
Cardiomyopathy, Focal	1 (10%)					1 (10%)
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(9)	(0)	(0)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Rathkes Cleft, Cyst						1 (10%)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Ovary	(10)	(0)	(0)	(0)	(0)	(10)
Cyst	1 (10%)					
Uterus	(10)	(0)	(0)	(0)	(1)	(10)
Hydrometra	4 (40%)				1 (100%)	6 (60%)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(1)	(0)	(0)	(2)	(0)	(2)
Mediastinal, Cyst						1 (50%)
Mediastinal, Ectasia				1 (50%)		
Mediastinal, Hemorrhage	1 (100%)					2 (100%)
Mediastinal, Infiltration Cellular, Plasma Cell				1 (50%)		
Lymph Node, Mandibular	(1)	(0)	(0)	(0)	(0)	(1)
Lymph Node, Mesenteric	(10)	(0)	(0)	(1)	(0)	(10)
Hemorrhage				1 (100%)		
Inflammation, Granulomatous						3 (30%)

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Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Alveolus, Infiltration Cellular, Histiocyte, Focal	1 (10%)					1 (10%)
Inflammation, Chronic Active	1 (10%)					1 (10%)
Inflammation, Chronic, Focal	3 (30%)					2 (20%)
Thrombosis, Focal	1 (10%)					
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic, Focal						3 (30%)
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Medulla, Mineralization	1 (10%)					1 (10%)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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