

Experiment Number: 20008-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

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

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014

Time Report Requested: 09:04:40

First Dose M/F: NA / NA

Lab: SRI

C Number: C20008
Lock Date: 11/08/2002
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	3125 PPM	6250 PPM	12500 PPM	25000 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	10	10	10	10	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)
Intussusception						1 (10%)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intussusception						1 (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)	(10)	(10)	(10)	(10)
Hepatodiaphragmatic Nodule		1 (100%)	1 (10%)	1 (10%)		1 (10%)
Inflammation, Chronic, Focal	6 (60%)		9 (90%)	10 (100%)	2 (20%)	3 (30%)
Vacuolization Cytoplasmic, Focal	2 (20%)					1 (10%)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Acinus, Basophilic Focus	1 (10%)					
Basophilic Focus						1 (10%)
Fibrosis	1 (10%)					
Interstitium, Fibrosis, Focal	1 (10%)					
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Parotid GI, Basophilic Focus	3 (30%)					
Parotid GI, Basophilic Focus, Multiple	5 (50%)					8 (80%)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)

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	3125 PPM	6250 PPM	12500 PPM	25000 PPM	50000 PPM
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
CARDIOVASCULAR SYSTEM						
Heart	(10)	(10)	(10)	(10)	(10)	(10)
Cardiomyopathy, Focal	10 (100%)	10 (100%)	10 (100%)	10 (100%)	9 (90%)	10 (100%)
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Accessory Adrenal Cortical Nodule	2 (20%)					2 (20%)
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 Distalis, Cyst	1 (10%)					1 (10%)
Pars Nervosa, Cyst						
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Ultimobranchial Cyst						1 (10%)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Myeloid Cell, Hyperplasia, Focal						1 (10%)
Lymph Node	(1)	(0)	(0)	(0)	(0)	(1)
Pancreatic, Hemorrhage	1 (100%)					1 (100%)
Lymph Node, Mandibular	(1)	(0)	(0)	(0)	(0)	(0)

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Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Histiocytic, Focal	1 (10%)					1 (10%)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage						1 (10%)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(1)	(0)	(0)	(10)
Lip, Hemorrhage, Focal			1 (100%)			
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)
Inflammation, Chronic, Focal	2 (20%)					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)
Lacrimal Gland	(1)	(0)	(0)	(0)	(0)	(1)
URINARY SYSTEM						
Kidney	(10)	(0)	(10)	(10)	(10)	(10)
Nephropathy	4 (40%)		3 (30%)	3 (30%)	5 (50%)	5 (50%)
Nephropathy, Focal						1 (10%)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

3125 PPM

6250 PPM

12500 PPM

25000 PPM

50000 PPM

END OF MALE DATA

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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						
Esophagus	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intussusception						1 (10%)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intussusception						1 (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)	(10)	(10)	(10)	(10)	(10)
Hepatodiaphragmatic Nodule	1 (10%)	2 (20%)	2 (20%)	1 (10%)	1 (10%)	1 (10%)
Inflammation, Chronic, Focal	7 (70%)	10 (100%)	8 (80%)	9 (90%)	10 (100%)	9 (90%)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Acinus, Atrophy, Focal	1 (10%)					
Interstitium, Fibrosis, Focal						1 (10%)
Salivary Glands	(10)	(10)	(10)	(10)	(7)	(10)
Duct, Parotid Gl, Inflammation, Chronic, Focal				1 (10%)		
Duct, Parotid Gl, Proliferation, Focal						1 (10%)
Interstitium, Fibrosis, Focal						1 (10%)
Parotid Gl, Basophilic Focus	1 (10%)	3 (30%)	4 (40%)	3 (30%)	5 (71%)	1 (10%)
Parotid Gl, Basophilic Focus, Multiple	1 (10%)	4 (40%)		1 (10%)	1 (14%)	6 (60%)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)

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Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
Tooth	(1)	(0)	(0)	(0)	(0)	(0)
Pulp, Dysplasia	1 (100%)					
CARDIOVASCULAR SYSTEM						
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy, Focal	2 (20%)					
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Accessory Adrenal Cortical Nodule	1 (10%)					
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(9)
Pars Distalis, Cyst						2 (22%)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Ultimobranchial Cyst	1 (10%)					1 (10%)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(1)	(1)	(1)	(0)	(10)
Cyst				1 (100%)		
Ovary	(10)	(0)	(0)	(0)	(0)	(10)
Uterus	(10)	(1)	(0)	(2)	(0)	(10)
Hydrometra	1 (10%)	1 (100%)		2 (100%)		1 (10%)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(1)	(0)	(2)	(1)	(0)	(0)
Mediastinal, Hemorrhage	1 (100%)					
Pancreatic, Hyperplasia, Lymphoid			2 (100%)	1 (100%)		

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F 344/N Rat FEMALE	0 PPM	3125 PPM	6250 PPM	12500 PPM	25000 PPM	50000 PPM
Lymph Node, Mandibular	(2)	(0)	(0)	(0)	(0)	(1)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Hyperplasia, Histiocytic	2 (20%)					5 (50%)
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)
Inflammation, Chronic, 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)
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Nephropathy	2 (20%)					2 (20%)
Pelvis, Inflammation						1 (10%)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

** END OF REPORT **

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