

TDMS No. 99024 - 07

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

Date Report Requested: 08/08/2008

Test Type: CHRONIC

Androstenedione

Time Report Requested: 08:20:33

Route: GAVAGE

CAS Number: 63-05-8

First Dose M/F: 02/03/03 / 02/03/03

Species/Strain: RATS/F 344

Lab: SRI

F1_R2

C Number: C99024C
Lock Date: 06/29/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.0.0

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CAS Number: 63-05-8

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Species/Strain: RATS/F 344

Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	22	9	17	13
Natural Death	7	8	4	10
Survivors				
Natural Death	1			
Terminal Sacrifice	20	33	29	27
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Foreign Body	1 [2.0]			
Inflammation, Suppurative	1 [3.0]			
Intestine Large, Cecum	(47)	(46)	(47)	(48)
Edema			1 [3.0]	
Intestine Large, Colon	(44)	(43)	(47)	(44)
Edema	2 [3.5]	1 [3.0]	4 [3.0]	
Fibrosis	1 [2.0]			
Intestine Large, Rectum	(46)	(46)	(47)	(47)
Hemorrhage			1 [3.0]	
Intestine Small, Duodenum	(48)	(47)	(49)	(47)
Hemorrhage			1 [1.0]	
Intestine Small, Ileum	(44)	(46)	(47)	(44)
Intestine Small, Jejunum	(44)	(44)	(47)	(42)
Hemorrhage			1 [3.0]	
Liver	(50)	(50)	(50)	(50)
Angiectasis		1 [2.0]		1 [2.0]
Basophilic Focus	17	29	29	33
Clear Cell Focus	13	21	23	14
Clear Cell Focus, Multiple				3
Degeneration, Cystic	10 [1.6]	3 [2.0]	12 [1.6]	7 [1.6]
Eosinophilic Focus	3	10	7	13
Hematopoietic Cell Proliferation		1 [2.0]		
Hemorrhage			1 [4.0]	
Hepatodiaphragmatic Nodule	7 [2.2]	8 [2.0]	7 [2.2]	10 [2.0]

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)

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Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Infiltration Cellular, Mixed Cell	10 [1.0]	3 [1.3]	11 [1.1]	4 [1.5]
Inflammation, Chronic	1 [1.0]			
Mixed Cell Focus	1	2	1	4
Necrosis, Focal	4 [2.0]		1 [2.0]	1 [2.0]
Tension Lipidosis	1 [2.0]			
Thrombosis			1 [4.0]	
Bile Duct, Hyperplasia	44 [1.8]	44 [1.8]	40 [1.7]	43 [1.6]
Hepatocyte, Hyperplasia	1 [3.0]		2 [2.0]	2 [2.5]
Hepatocyte, Vacuolization Cytoplasmic	25 [1.8]	18 [1.9]	14 [2.1]	9 [1.4]
Kupffer Cell, Pigmentation	1 [1.0]			
Mesentery	(18)	(13)	(12)	(18)
Accessory Spleen	4 [2.0]	1 [3.0]		3 [2.0]
Hemorrhage		1 [2.0]		
Inflammation, Suppurative	1 [2.0]			
Inflammation, Granulomatous	1 [2.0]			
Fat, Necrosis	13 [2.2]	10 [2.3]	10 [2.2]	15 [2.2]
Pancreas	(50)	(50)	(50)	(50)
Atrophy	17 [1.9]	30 [2.0]	19 [1.8]	21 [1.7]
Cyst	5 [2.4]	3 [1.7]	7 [2.1]	
Infiltration Cellular, Lymphocyte				1 [1.0]
Acinus, Cytoplasmic Alteration	4 [2.5]	3 [2.7]	2 [3.0]	2 [3.0]
Acinus, Hyperplasia, Focal	1 [2.0]	3 [2.3]	3 [1.7]	2 [2.5]
Arteriole, Inflammation, Chronic		1 [2.0]		
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy				1 [3.0]
Stomach, Forestomach	(50)	(50)	(50)	(50)
Edema	4 [3.0]	7 [3.1]	4 [3.8]	4 [3.5]
Erosion	1 [2.0]			
Hemorrhage			1 [2.0]	
Inflammation, Chronic Active		1 [2.0]		
Ulcer	6 [2.5]	7 [3.0]	4 [3.5]	5 [2.8]
Epithelium, Hyperplasia	5 [2.4]	6 [2.3]	3 [3.0]	5 [2.2]
Stomach, Glandular	(50)	(50)	(50)	(50)
Edema				1 [2.0]
Erosion	6 [2.0]	2 [1.5]	4 [1.8]	5 [1.8]
Ulcer	2 [2.5]	1 [3.0]	2 [2.5]	1 [3.0]
Epithelium, Cyst	1 [2.0]			1 [2.0]
Epithelium, Hyperplasia	1 [1.0]		2 [2.0]	2 [2.0]
Muscularis, Hyperplasia				1 [2.0]
Tongue	(1)	(0)	(0)	(2)

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Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Hyperplasia, Squamous Tooth Malformation	(0)	(0)	(1) 1 [3.0]	2 [2.0] (0)
CARDIOVASCULAR SYSTEM				
Blood Vessel Heart Cardiomyopathy Thrombosis	(2) (50) 47 [2.0] 6 [2.7]	(3) (50) 47 [2.0] 3 [3.3]	(1) (50) 48 [2.1] 3 [2.7]	(0) (50) 48 [2.0] 2 [3.0]
ENDOCRINE SYSTEM				
Adrenal Cortex Accessory Adrenal Cortical Nodule Degeneration, Fatty Hyperplasia, Focal Hypertrophy, Focal Hypertrophy, Diffuse Necrosis Bilateral, Necrosis Adrenal Medulla Hyperplasia Infiltration Cellular, Lymphocyte Islets, Pancreatic Hyperplasia Parathyroid Gland Cyst Hyperplasia Pituitary Gland Pars Distalis, Angiectasis Pars Distalis, Cyst Pars Distalis, Hyperplasia, Focal Pars Intermedia, Angiectasis Pars Intermedia, Cyst Pars Intermedia, Hyperplasia, Focal Rathke's Cleft, Cyst Thyroid Gland Ultimobranchial Cyst	(50) 1 [1.0] 22 [2.0] 5 [1.4] 3 [1.0] 1 [3.0] (50) 5 [2.0] (50) 5 [1.8] (48) (50) 1 [3.0] 2 [1.5] 13 [1.7] (50) 1 [3.0] 2 [1.5] 13 [1.7] (50) 1 [2.0] 3 [2.3] 15 [1.9] (50) 1 [2.0] 1 [2.0] 1 [2.0] (50) 1 [2.0]	(50) 3 [2.0] 27 [1.9] 4 [1.8] 3 [1.0] 1 [3.0] (50) 8 [2.0] (50) 4 [2.0] (50) 1 [3.0] (50) 1 [2.0] 3 [2.3] 15 [1.9] (50) 1 [2.0] 1 [2.0] 1 [2.0] (50) 1 [2.0]	(50) 1 [2.0] 25 [2.0] 3 [1.3] 2 [1.0] (50) 6 [2.0] (50) 2 [1.5] (50) (49) 1 [3.0] 21 [1.8] 2 [2.0] 1 [2.0] 1 [2.0] (50) 2 [1.5]	(50) 1 [3.0] 21 [1.7] 1 [1.0] 4 [1.5] 1 [2.0] (50) 10 [1.8] 1 [2.0] (50) 9 [1.8] (48) 1 [3.0] (50) 2 [3.5] 4 [2.3] 18 [1.7] 1 [2.0] (50)

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
C-cell, Hyperplasia	32 [1.4]	33 [1.2]	26 [1.2]	20 [1.3]
Follicle, Cyst		1 [3.0]	5 [2.2]	1 [2.0]
Follicular Cell, Hyperplasia		2 [1.5]	2 [1.5]	1 [1.0]
GENERAL BODY SYSTEM				
Tissue NOS	(0)	(0)	(1)	(0)
GENITAL SYSTEM				
Coagulating Gland	(0)	(3)	(2)	(0)
Inflammation, Suppurative		1 [3.0]		
Epithelium, Hyperplasia		1 [3.0]		
Epididymis	(50)	(50)	(50)	(50)
Atrophy	1 [3.0]			
Degeneration	1 [3.0]			
Inflammation, Chronic				1 [2.0]
Penis	(0)	(1)	(0)	(0)
Inflammation, Chronic		1 [2.0]		
Preputial Gland	(50)	(50)	(50)	(50)
Cyst	4 [3.0]	2 [2.5]		7 [2.9]
Fibrosis				1 [3.0]
Hyperplasia	1 [2.0]	1 [2.0]		1 [2.0]
Inflammation, Chronic	47 [1.7]	48 [1.6]	41 [1.4]	43 [1.3]
Prostate	(50)	(50)	(50)	(50)
Inflammation, Chronic	25 [2.0]	24 [2.1]	20 [2.1]	20 [2.0]
Epithelium, Hyperplasia	9 [1.9]	18 [1.9]	9 [2.1]	12 [1.9]
Seminal Vesicle	(50)	(50)	(50)	(50)
Testes	(50)	(50)	(50)	(50)
Malformation				1
Thrombosis	1 [4.0]			
Germinal Epithelium, Atrophy	9 [3.1]	8 [2.8]	10 [3.0]	11 [2.5]
Interstitial Cell, Hyperplasia	4 [1.5]	2 [2.0]	2 [1.0]	2 [1.0]
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Hyperplasia	4 [2.8]	4 [2.5]	4 [3.5]	7 [2.9]

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Myelofibrosis	1 [4.0]	2 [3.5]		
Lymph Node	(25)	(18)	(16)	(13)
Mediastinal, Angiectasis		1 [2.0]		
Mediastinal, Ectasia	1 [3.0]		2 [2.5]	
Mediastinal, Fibrosis	1 [3.0]			
Mediastinal, Hemorrhage		1 [2.0]	1 [3.0]	
Mediastinal, Hyperplasia, Histiocytic	1 [2.0]			
Mediastinal, Hyperplasia, Lymphoid	3 [2.3]	3 [3.0]		
Pancreatic, Angiectasis				1 [2.0]
Pancreatic, Atrophy	1 [4.0]			
Pancreatic, Ectasia	3 [3.0]	1 [3.0]	2 [2.5]	
Pancreatic, Hemorrhage	1 [3.0]		1 [4.0]	
Pancreatic, Hyperplasia, Histiocytic	7 [2.3]		3 [2.3]	2 [1.5]
Pancreatic, Hyperplasia, Lymphoid	1 [3.0]			
Pancreatic, Necrosis		1 [3.0]		
Lymph Node, Mandibular	(1)	(0)	(1)	(2)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Atrophy	1 [3.0]			
Ectasia	3 [2.7]	5 [2.4]	7 [2.3]	5 [2.2]
Fibrosis	1 [3.0]			
Hemorrhage			2 [3.0]	
Hyperplasia, Histiocytic	25 [1.4]	13 [1.2]	25 [1.5]	19 [1.5]
Hyperplasia, Lymphoid	1 [2.0]	2 [2.0]	1 [2.0]	1 [3.0]
Infiltration Cellular, Eosinophil	1 [2.0]			
Infiltration Cellular, Plasma Cell	1 [3.0]			
Pigmentation				2 [1.0]
Spleen	(50)	(50)	(50)	(50)
Accessory Spleen		1 [2.0]	1 [2.0]	
Fibrosis	6 [2.8]	1 [2.0]	4 [2.8]	
Hematopoietic Cell Proliferation	2 [2.0]		4 [2.5]	2 [2.0]
Hemorrhage	2 [3.0]			
Hyperplasia, Histiocytic	1 [2.0]			1 [3.0]
Hyperplasia, Lymphoid	1 [3.0]			
Necrosis	2 [3.5]	1 [4.0]	1 [3.0]	
Pigmentation	12 [2.1]	12 [2.1]	8 [2.1]	12 [2.3]
Lymphoid Follicle, Hyperplasia		3 [2.0]	4 [2.8]	3 [2.7]
Red Pulp, Hyperplasia			1 [3.0]	
Thymus	(50)	(50)	(50)	(49)
Atrophy			2 [3.0]	
Cyst			1 [3.0]	

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Hemorrhage Hyperplasia, Lymphoid	2 [2.5]	1 [2.0]	1 [2.0]	
INTEGUMENTARY SYSTEM				
Mammary Gland	(48)	(50)	(50)	(50)
Cyst	8 [2.5]	4 [2.3]	4 [2.8]	11 [2.2]
Hyperplasia	38 [1.7]	37 [1.6]	33 [1.7]	42 [1.5]
Inflammation, Granulomatous	1 [2.0]			
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	3	1	1	2 [3.0]
Fibrosis		2 [3.0]	1 [3.0]	3 [1.7]
Hyperkeratosis	5 [2.6]	3 [3.0]	6 [2.5]	7 [2.6]
Inflammation, Suppurative				1 [2.0]
Inflammation, Granulomatous				1 [3.0]
Inflammation, Chronic			1 [3.0]	1 [3.0]
Ulcer				1 [3.0]
Epidermis, Hyperplasia	3 [2.3]	1 [2.0]	3 [2.0]	3 [2.0]
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Cranium, Osteopetrosis	1 [3.0]			1 [2.0]
Skeletal Muscle	(8)	(1)	(3)	(5)
Fibrosis	3 [2.0]		2 [2.0]	1 [2.0]
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Compression	13 [2.4]	8 [2.6]	7 [2.7]	9 [2.4]
Gliosis	1 [2.0]			
Hemorrhage	3 [2.7]		2 [2.5]	4 [2.5]
Necrosis				2 [3.0]
Spinal Cord	(6)	(1)	(0)	(5)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Congestion			1 [3.0]	
Foreign Body			1 [2.0]	
Hemorrhage	1 [2.0]	1 [2.0]	1 [1.0]	1 [2.0]
Infiltration Cellular, Histiocyte	17 [1.6]	17 [1.2]	18 [1.2]	18 [1.1]
Inflammation, Granulomatous		1 [2.0]	1 [2.0]	1 [2.0]
Inflammation, Chronic			1 [1.0]	3 [1.7]
Metaplasia, Osseous		1 [1.0]	1 [2.0]	
Alveolar Epithelium, Hyperplasia	6 [2.3]	7 [2.1]	8 [2.0]	4 [2.0]
Serosa, Cyst				1 [2.0]
Nose	(50)	(50)	(50)	(50)
Foreign Body	5 [1.8]	13 [1.7]	5 [1.8]	
Infiltration Cellular, Lymphocyte			1 [2.0]	
Inflammation, Suppurative	3 [2.0]	4 [2.5]	1 [2.0]	1 [2.0]
Inflammation, Chronic	4 [2.3]	3 [2.0]	5 [1.4]	1 [2.0]
Nasolacrimal Duct, Inflammation, Chronic				1 [2.0]
Respiratory Epithelium, Hyperplasia	8 [2.4]	11 [2.2]	7 [2.1]	3 [2.0]
Sinus, Inflammation, Suppurative	1 [2.0]			
Vomeranasal Organ, Atrophy			1 [2.0]	
SPECIAL SENSES SYSTEM				
Eye	(48)	(46)	(50)	(49)
Cataract	1 [4.0]		1 [3.0]	2 [2.5]
Ciliary Body, Hyperplasia	1 [2.0]			
Retina, Degeneration	1 [2.0]	1 [2.0]	1 [4.0]	4 [2.0]
Retina, Edema				1 [2.0]
Sclera, Metaplasia, Osseous		3 [1.3]	2 [2.0]	1 [1.0]
Harderian Gland	(50)	(50)	(50)	(50)
Infiltration Cellular, Lymphocyte			1 [2.0]	
Inflammation, Chronic				1 [2.0]
Necrosis	1 [2.0]			
Zymbal's Gland	(0)	(0)	(1)	(0)
URINARY SYSTEM				
Kidney	(49)	(50)	(50)	(50)
Cyst				1 [1.0]
Hydronephrosis				1 [3.0]
Infarct	3 [2.3]	1 [2.0]		

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Nephropathy	42 [1.6]	48 [2.0]	46 [1.9]	44 [2.0]
Renal Tubule, Accumulation, Hyaline Droplet	1 [3.0]	1 [3.0]		1 [4.0]
Renal Tubule, Necrosis	1 [3.0]	1 [3.0]	2 [2.5]	
Renal Tubule, Pigmentation	5 [2.4]	2 [2.0]	6 [2.3]	6 [1.7]
Urinary Bladder	(50)	(50)	(50)	(50)
Calculus Micro Observation Only		1 [2.0]		
Hemorrhage				1 [3.0]
Inflammation, Chronic		1 [3.0]		
Transitional Epithelium, Hyperplasia		2 [2.5]		

*** END OF MALE ***

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FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	10	7	12	9
Natural Death	2	6	5	4
Survivors				
Natural Death		1		
Terminal Sacrifice	38	36	33	37
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Intestine Large, Rectum	(49)	(47)	(47)	(48)
Edema	1 [2.0]			
Intestine Small, Ileum	(48)	(46)	(45)	(48)
Serosa, Inflammation, Chronic	1 [2.0]			
Liver	(50)	(50)	(50)	(50)
Angiectasis		1 [2.0]		1 [2.0]
Basophilic Focus	47	46	42	38
Clear Cell Focus	14	10	11	14
Degeneration, Cystic				1 [2.0]
Eosinophilic Focus	5		4	
Fibrosis	1 [2.0]	1 [1.0]		
Hematopoietic Cell Proliferation	1 [1.0]			
Hemorrhage				1 [1.0]
Hepatodiaphragmatic Nodule	10 [2.1]	9 [1.7]	11 [2.1]	9 [2.3]
Infiltration Cellular, Mixed Cell	21 [1.0]	33 [1.2]	32 [1.2]	31 [1.2]
Mixed Cell Focus	1		2	
Necrosis, Focal			1 [1.0]	1 [2.0]
Bile Duct, Hyperplasia	12 [1.3]	16 [1.3]	18 [1.3]	24 [1.2]
Centrilobular, Necrosis				1 [1.0]
Hepatocyte, Vacuolization Cytoplasmic	6 [1.8]	4 [3.0]	7 [2.6]	5 [2.4]
Kupffer Cell, Pigmentation	2 [1.5]			
Mesentery	(13)	(14)	(15)	(15)
Accessory Spleen	2		3 [1.7]	2 [2.0]
Fat, Necrosis	12 [2.3]	14 [2.2]	14 [2.1]	12 [2.0]
Oral Mucosa	(0)	(1)	(0)	(0)

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Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Pancreas	(50)	(50)	(50)	(50)
Atrophy	10 [1.6]	10 [1.8]	16 [1.8]	26 [1.6]
Cyst	3 [2.3]	7 [1.7]	4 [1.5]	2 [1.5]
Infiltration Cellular, Lymphocyte		1 [2.0]	3 [2.0]	3 [2.0]
Acinus, Cytoplasmic Alteration		4 [2.8]	1 [3.0]	2 [3.0]
Acinus, Hyperplasia, Focal			1 [2.0]	3 [2.0]
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy		1 [2.0]		
Vacuolization Cytoplasmic		1 [4.0]		
Stomach, Forestomach	(50)	(50)	(50)	(50)
Edema	1 [4.0]	3 [2.3]	2 [3.5]	3 [2.7]
Inflammation, Chronic Active	1 [3.0]			
Ulcer	2 [3.5]	2 [3.0]	2 [2.5]	2 [3.0]
Epithelium, Hyperplasia	3 [3.0]	1 [2.0]	2 [2.5]	6 [2.5]
Stomach, Glandular	(50)	(50)	(50)	(50)
Edema				2 [2.5]
Erosion				3 [1.7]
Ulcer			2 [1.5]	1 [2.0]
Epithelium, Hyperplasia	1 [2.0]	2 [2.5]		1 [2.0]
Tongue	(1)	(0)	(1)	(1)
Hyperkeratosis				1 [2.0]
Epithelium, Hyperplasia	1 [2.0]			
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	46 [1.7]	43 [1.7]	43 [1.7]	48 [1.9]
Thrombosis		2 [2.5]	1 [2.0]	1 [3.0]
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	1 [2.0]	3 [2.0]	1 [2.0]	
Angiectasis	1 [2.0]			
Degeneration, Fatty	15 [1.9]	20 [1.9]	24 [1.8]	13 [1.9]
Hematopoietic Cell Proliferation		2 [1.5]		1 [1.0]
Hyperplasia, Focal	1 [2.0]	4 [1.5]	1 [2.0]	2 [2.0]
Hypertrophy, Focal	12 [1.8]	10 [2.1]	9 [1.8]	2 [1.0]
Hypertrophy, Diffuse		1 [2.0]		

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

Androstenedione

Time Report Requested: 08:20:33

Route: GAVAGE

CAS Number: 63-05-8

First Dose M/F: 02/03/03 / 02/03/03

Species/Strain: RATS/F 344

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Necrosis		1 [2.0]		
Capsule, Developmental Malformation		1		
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	1 [2.0]	1 [2.0]	3 [2.3]	2 [2.0]
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia		4 [1.8]	1 [2.0]	11 [1.8]
Parathyroid Gland	(49)	(48)	(48)	(45)
Hyperplasia				1 [2.0]
Pituitary Gland	(50)	(50)	(49)	(50)
Pars Distalis, Angiectasis		1 [3.0]	1 [3.0]	3 [2.3]
Pars Distalis, Cyst	18 [2.3]	12 [2.4]	14 [2.4]	13 [2.5]
Pars Distalis, Hyperplasia, Focal	20 [2.0]	20 [1.9]	14 [1.8]	19 [1.7]
Pars Intermedia, Angiectasis	1 [1.0]			
Rathke's Cleft, Cyst	3 [3.0]	1 [1.0]	4 [2.5]	
Thyroid Gland	(50)	(50)	(50)	(50)
Ultimobranchial Cyst			2 [1.5]	1 [1.0]
C-cell, Hyperplasia	27 [1.8]	33 [1.7]	24 [1.5]	25 [1.7]
Follicle, Cyst		1 [2.0]	2 [2.0]	1 [2.0]
Follicular Cell, Hyperplasia	1 [1.0]			

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(50)	(50)
Cyst	6 [2.8]	8 [2.8]	8 [3.1]	4 [2.8]
Hyperplasia	3 [2.7]	4 [3.0]		3 [2.3]
Inflammation, Suppurative	1 [2.0]		1 [3.0]	1 [2.0]
Inflammation, Chronic	23 [1.0]	26 [1.2]	18 [1.4]	24 [1.3]
Ovary	(50)	(50)	(50)	(50)
Angiectasis				1 [2.0]
Cyst	3 [2.7]	5 [2.8]	2 [3.0]	1 [3.0]
Infiltration Cellular, Histiocyte				1 [2.0]
Bursa, Dilatation	6 [2.8]	6 [3.0]	2 [3.0]	6 [3.0]
Corpus Luteum, Hyperplasia		1 [3.0]		
Follicle, Cyst				1 [2.0]
Interstitial Cell, Cyst				1 [2.0]

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Test Type: CHRONIC

Androstenedione

Time Report Requested: 08:20:33

Route: GAVAGE

CAS Number: 63-05-8

First Dose M/F: 02/03/03 / 02/03/03

Species/Strain: RATS/F 344

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Uterus	(50)	(50)	(50)	(50)
Decidual Reaction			1 [3.0]	
Hemorrhage		1 [2.0]	1 [4.0]	1 [3.0]
Hyperplasia, Cystic	9 [1.8]	8 [1.9]	11 [1.6]	14 [1.9]
Inflammation, Suppurative	1 [3.0]			
Thrombosis		1 [4.0]		
Epithelium, Hyperplasia			2 [2.0]	
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Atrophy		1 [2.0]	1 [2.0]	
Hyperplasia	3 [3.7]	6 [2.0]	5 [2.8]	1 [3.0]
Thrombosis		1 [2.0]		
Lymph Node	(5)	(10)	(16)	(10)
Congestion			1 [2.0]	
Deep Cervical, Ectasia			1 [2.0]	
Deep Cervical, Necrosis	1 [4.0]			
Mediastinal, Ectasia		2 [3.0]	1 [2.0]	
Mediastinal, Hemorrhage		3 [2.0]	1 [3.0]	1 [2.0]
Mediastinal, Hyperplasia, Lymphoid	2 [2.0]	2 [2.5]	3 [2.0]	
Mediastinal, Infiltration Cellular, Mast Cell	1 [2.0]			
Mediastinal, Pigmentation	1 [2.0]			
Pancreatic, Ectasia			1 [3.0]	
Pancreatic, Hemorrhage	1 [3.0]	2 [2.0]	3 [2.3]	2 [2.0]
Pancreatic, Hyperplasia, Histiocytic			1 [2.0]	
Pancreatic, Pigmentation				1 [3.0]
Lymph Node, Mandibular	(0)	(0)	(0)	(1)
Lymph Node, Mesenteric	(50)	(50)	(49)	(50)
Ectasia	2 [2.0]		3 [2.3]	4 [2.3]
Hemorrhage			1 [2.0]	
Hyperplasia, Histiocytic	29 [1.7]	34 [1.8]	24 [1.8]	19 [1.6]
Hyperplasia, Lymphoid		1 [3.0]	1 [2.0]	1 [2.0]
Pigmentation	1 [2.0]		2 [2.0]	
Spleen	(50)	(49)	(50)	(50)
Fibrosis			1 [3.0]	
Hematopoietic Cell Proliferation	5 [2.0]	3 [2.7]	6 [1.5]	2 [1.5]
Hemorrhage		1 [3.0]	1 [3.0]	1 [4.0]
Hyperplasia, Lymphoid				1 [2.0]

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Test Type: CHRONIC

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Route: GAVAGE

CAS Number: 63-05-8

First Dose M/F: 02/03/03 / 02/03/03

Species/Strain: RATS/F 344

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Infiltration Cellular, Mixed Cell Pigmentation	43 [2.0]	44 [2.0]	39 [1.8]	1 [1.0] 36 [1.7]
Lymphoid Follicle, Hyperplasia	1 [3.0]	2 [3.5]	3 [2.7]	11 [2.7]
Thymus	(50)	(50)	(49)	(50)
Atrophy				1 [2.0]
Hemorrhage		1 [2.0]		
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Cyst	15 [2.1]	3 [1.7]	9 [2.1]	3 [2.7]
Hyperplasia	48 [2.2]	40 [2.3]	35 [2.0]	23 [1.8]
Inflammation, Suppurative				1 [4.0]
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion		1 [2.0]		1 [3.0]
Hyperkeratosis		1 [3.0]		2 [3.0]
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Hyperostosis				1 [3.0]
Skeletal Muscle	(0)	(1)	(0)	(0)
Inflammation, Chronic		1 [2.0]		
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Compression	6 [2.2]	10 [2.3]	4 [2.5]	5 [2.4]
Hemorrhage	1 [3.0]			1 [2.0]
Hydrocephalus	1 [2.0]	1 [3.0]		
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Congestion		1 [3.0]		
Emphysema		1 [3.0]		
Hemorrhage		1 [1.0]		
Infiltration Cellular, Histiocyte	31 [1.0]	37 [1.2]	26 [1.1]	27 [1.1]

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Test Type: CHRONIC

Androstenedione

Time Report Requested: 08:20:33

Route: GAVAGE

CAS Number: 63-05-8

First Dose M/F: 02/03/03 / 02/03/03

Species/Strain: RATS/F 344

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Inflammation, Chronic Pigmentation	1 [2.0]	1 [2.0]	1 [2.0]	1 [2.0]
Alveolar Epithelium, Hyperplasia	12 [1.9]	13 [1.5]	11 [1.9]	10 [1.6]
Artery, Hypertrophy	1 [2.0]	1 [2.0]		
Nose	(50)	(50)	(50)	(50)
Foreign Body	6 [1.7]	4 [1.8]	6 [1.5]	3 [1.3]
Inflammation, Suppurative	3 [2.0]	2 [2.0]	3 [2.3]	
Inflammation, Chronic	3 [2.0]	2 [3.0]	1 [3.0]	
Respiratory Epithelium, Hyperplasia	7 [2.0]	8 [2.0]	1 [2.0]	1 [2.0]
SPECIAL SENSES SYSTEM				
Ear	(0)	(1)	(0)	(0)
Inflammation, Suppurative		1 [3.0]		
Eye	(49)	(48)	(47)	(49)
Atrophy	1 [4.0]	1 [3.0]		1 [3.0]
Cataract	3 [3.7]			1 [3.0]
Cornea, Inflammation, Chronic		1 [1.0]		
Retina, Degeneration		1 [3.0]	3 [3.0]	
Sclera, Metaplasia, Osseous	1 [2.0]		1 [2.0]	
Harderian Gland	(50)	(50)	(50)	(50)
Infiltration Cellular, Lymphocyte			1 [1.0]	
Zymbal's Gland	(0)	(0)	(1)	(0)
URINARY SYSTEM				
Kidney	(50)	(49)	(50)	(50)
Cyst	2 [3.0]			1 [3.0]
Glomerulosclerosis		1 [3.0]	1 [4.0]	
Infarct	2 [2.5]		1 [2.0]	
Nephropathy	48 [1.1]	44 [1.1]	43 [1.0]	43 [1.1]
Renal Tubule, Accumulation, Hyaline Droplet	3 [2.7]			2 [2.5]
Renal Tubule, Necrosis				1 [2.0]
Renal Tubule, Pigmentation	1 [3.0]		2 [2.5]	3 [3.3]
Renal Tubule, Vacuolization Cytoplasmic		1 [3.0]		
Urinary Bladder	(50)	(50)	(50)	(50)

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TDMS No. 99024 - 07

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

Date Report Requested: 08/08/2008

Test Type: CHRONIC

Androstenedione

Time Report Requested: 08:20:33

Route: GAVAGE

CAS Number: 63-05-8

First Dose M/F: 02/03/03 / 02/03/03

Species/Strain: RATS/F 344

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
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*** 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)