

Experiment Number: 99024-05
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Test Compound: Androstenedione
CAS Number: 63-05-8

Date Report Requested: 10/21/2014
Time Report Requested: 18:29:06
First Dose M/F: NA / NA
Lab: SRI

C Number:	C99024C
Lock Date:	11/15/2002
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 MG/KG	1 MG/KG	5 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
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)
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)	(10)	(10)	(10)	(10)	(10)
Hematopoietic Cell Proliferation, Focal	2 [1.0]			2 [1.0]	1 [1.0]	5 [1.0]
Hepatodiaphragmatic Nodule	1	2	2	1		1
Inflammation, Chronic, Focal	5 [1.0]	4 [1.0]	4 [1.0]	4 [1.0]	4 [1.0]	2 [1.0]
Vacuolization Cytoplasmic, Focal	9 [1.1]	7 [1.3]	9 [1.4]	8 [1.3]	9 [1.4]	10 [1.5]
Mesentery	(0)	(1)	(0)	(0)	(0)	(0)
Necrosis, Fatty, Focal		1 [2.0]				
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Acinus, Atrophy, Focal	4 [1.0]					2 [1.0]
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Parotid GI, Basophilic Focus, Multiple	10 [1.0]					7 [1.0]
Submandibul GI, Vacuolization Cytoplasmic						2 [1.5]
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)

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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F 344/N Rat MALE	0 MG/KG	1 MG/KG	5 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Inflammation, Granulomatous	1 [2.0]					
CARDIOVASCULAR SYSTEM						
Heart	(10)	(10)	(10)	(10)	(10)	(10)
Cardiomyopathy, Focal	9 [1.1]	10 [1.4]	10 [1.0]	10 [1.1]	9 [1.3]	10 [1.5]
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(10)
Accessory Adrenal Cortical Nodule				1		1 [1.0]
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(1)	(0)	(0)	(0)	(0)	(0)
Hyperplasia, Focal	1 [2.0]					
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Pars Distalis, Cyst						1 [1.0]
Thyroid Gland	(10)	(10)	(10)	(10)	(10)	(10)
Cyst						1 [1.0]
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Lymphocyte		1 [2.0]				
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(1)	(0)	(0)	(0)	(10)
Atrophy		1 [4.0]				
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)

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F 344/N Rat MALE	0 MG/KG	1 MG/KG	5 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Lymph Node	(1)	(0)	(0)	(0)	(0)	(1)
Mediastinal, Hemorrhage	1 [2.0]					1 [2.0]
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(1)	(10)
Necrosis	2 [1.0]					1 [1.0]
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(5)	(8)	(8)	(8)	(9)
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, Hemorrhage, Focal	2 [1.5]					1 [2.0]
Alveolus, Infiltration Cellular, Histiocyte, Focal	2 [1.5]					
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	4 [1.0]					5 [1.0]
Renal Tubule, Mineralization, Focal	1 [1.0]					

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F 344/N Rat MALE	0 MG/KG	1 MG/KG	5 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

END OF MALE DATA

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

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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)	(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)	(10)	(10)	(10)	(10)	(10)
Hematopoietic Cell Proliferation, Focal	1 [1.0]					
Hepatodiaphragmatic Nodule	1	2	5	1	1	1
Inflammation, Chronic, Focal	9 [1.0]	9 [1.3]	6 [1.8]	10 [1.5]	10 [1.4]	8 [1.1]
Mesentery	(2)	(0)	(0)	(0)	(0)	(0)
Necrosis, Fatty, Focal	2 [2.0]					
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Acinus, Atrophy, Focal	1 [2.0]					
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Parotid Gl, Atrophy	1 [1.0]					1 [1.0]
Parotid Gl, Basophilic Focus	1 [1.0]					
Parotid Gl, Basophilic Focus, Multiple	4 [1.0]					8 [1.0]
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)

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F 344/N Rat FEMALE	0 MG/KG	1 MG/KG	5 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
CARDIOVASCULAR SYSTEM						
Heart	(10)	(10)	(10)	(10)	(10)	(10)
Cardiomyopathy, Focal	7 [1.0]	7 [1.0]	7 [1.0]	7 [1.0]	9 [1.1]	9 [1.0]
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(10)
Accessory Adrenal Cortical Nodule	1 [1.0]	1			1	
Adrenal Medulla	(10)	(0)	(1)	(0)	(0)	(10)
Cytoplasmic Alteration, Focal			1 [1.0]			
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Lymphocyte	1 [1.0]					
Ultimobranchial Cyst						2 [1.0]
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Ovary	(10)	(10)	(10)	(10)	(10)	(10)
Cyst				1 [1.0]		
Uterus	(10)	(10)	(10)	(10)	(10)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(6)	(0)	(0)	(0)	(0)	(2)
Mediastinal, Hemorrhage						1 [2.0]
Pancreatic, Infiltration Cellular, Histiocyte	5 [1.6]					1 [2.0]
Lymph Node, Mandibular	(0)	(0)	(0)	(0)	(0)	(1)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)

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F 344/N Rat FEMALE	0 MG/KG	1 MG/KG	5 MG/KG	10 MG/KG	20 MG/KG	50 MG/KG
Hyperplasia, Lymphoid Infiltration Cellular, Histiocyte	1 [2.0]					1 [1.0]
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
Necrosis	2 [1.0]					
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(10)	(10)	(10)	(10)	(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, Hemorrhage, Focal	1 [1.0]					5 [1.2]
Alveolus, Infiltration Cellular, Histiocyte, Focal	1 [1.0]					1 [1.0]
Inflammation, Chronic, Focal	1 [1.0]					2 [1.0]
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)
Infiltration Cellular, Lymphocyte	1 [1.0]					
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Nephropathy						1 [1.0]

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Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

**** END OF REPORT ****

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

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