

Experiment Number: 99920-95
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

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

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 12:58:38

First Dose M/F: NA / NA

Lab: NCTR

C Number:	MG96006
Lock Date:	Not Entered.
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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CD Rat MALE	F4	CONTROL	F4/2PPB TO CTRL	F4/10PPB TO CTRL	F4/50PPB TO CTRL
Disposition Summary					
Animals Initially In Study		25	25	26	25
Early Deaths					
Moribund Sacrifice				1	
Survivors					
Terminal Sacrifice		25	25	25	25
Animals Examined Microscopically		25	25	26	25
ALIMENTARY SYSTEM					
Esophagus		(0)	(0)	(1)	(0)
Liver		(25)	(1)	(2)	(25)
Bile Duct, Hyperplasia				1 (50%)	1 (4%)
Cyst		1 (4%)			
Hepatocyte, Degeneration				1 (50%)	
Hepatocyte, Necrosis				1 (50%)	
Hepatodiaphragmatic Nodule				1 (50%)	
Infiltration Cellular, Lymphocyte		1 (4%)		1 (50%)	1 (4%)
Inflammation, Chronic Active		13 (52%)			10 (40%)
Vacuolization Cytoplasmic					1 (4%)
Pancreas		(0)	(0)	(1)	(0)
Acinar Cell, Degeneration				1 (100%)	
Infiltration Cellular, Lymphocyte				1 (100%)	
CARDIOVASCULAR SYSTEM					
Blood Vessel		(0)	(0)	(1)	(0)
Heart		(0)	(0)	(1)	(0)
ENDOCRINE SYSTEM					
Adrenal Cortex		(25)	(0)	(1)	(25)
Accessory Adrenal Cortical Nodule		1 (4%)			
Vacuolization Cytoplasmic		4 (16%)			2 (8%)

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

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Adrenal Medulla	(25)	(0)	(0)	(1)	(25)
Pituitary Gland	(25)	(0)	(0)	(2)	(25)
Pars Distalis, Cyst				1 (50%)	2 (8%)
Thyroid Gland	(25)	(0)	(0)	(0)	(25)
Cyst, Squamous	6 (24%)				4 (16%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Coagulating Gland	(25)	(25)	(25)	(26)	(24)
Bilateral, Developmental Malformation	1 (4%)				1 (4%)
Developmental Malformation	9 (36%)		9 (36%)	6 (23%)	10 (42%)
Hypoplasia				1 (4%)	
Epididymis	(25)	(25)	(25)	(26)	(25)
Atrophy					1 (4%)
Hypoplasia				1 (4%)	
Hypospermia					1 (4%)
Preputial Gland	(0)	(2)	(2)	(1)	(0)
Duct, Dilatation			2 (100%)		
Inflammation, Suppurative			2 (100%)	1 (100%)	
Prostate, Dorsal/Lateral Lobe	(6)	(7)	(7)	(10)	(6)
Hypoplasia				1 (10%)	
Inflammation, Suppurative	6 (100%)		7 (100%)	9 (90%)	6 (100%)
Prostate, Dorsal/lateral Lobe	(19)	(18)	(18)	(16)	(19)
Prostate, Ventral Lobe	(25)	(25)	(25)	(26)	(25)
Hypoplasia				1 (4%)	
Infiltration Cellular, Lymphocyte	14 (56%)		9 (36%)	13 (50%)	16 (64%)
Inflammation, Suppurative	1 (4%)		1 (4%)		
Rete Testes	(25)	(24)	(24)	(26)	(25)
Dilatation					1 (4%)

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Seminal Vesicle	(25)	(25)	(25)	(26)	(25)
Hypoplasia				1 (4%)	
Testes	(25)	(25)	(25)	(26)	(25)
Hypoplasia				1 (4%)	
Seminif Tub, Degeneration	1 (4%)		3 (12%)		1 (4%)
HEMATOPOIETIC SYSTEM					
Bone Marrow	(25)	(0)	(0)	(1)	(25)
Spleen	(25)	(0)	(0)	(1)	(25)
Congestion				1 (100%)	
Hyperplasia, Lymphoid				1 (100%)	1 (4%)
Thymus	(25)	(0)	(0)	(1)	(25)
Atrophy				1 (100%)	
INTEGUMENTARY SYSTEM					
Mammary Gland	(25)	(25)	(25)	(25)	(25)
Alveolus, Hyperplasia	3 (12%)		5 (20%)	5 (20%)	7 (28%)
Duct, Hyperplasia	1 (4%)			2 (8%)	
Skin	(0)	(0)	(0)	(1)	(0)
MUSCULOSKELETAL SYSTEM					
Bone	(25)	(0)	(0)	(1)	(25)
NERVOUS SYSTEM					
Brain	(0)	(0)	(0)	(1)	(0)
Spinal Cord	(0)	(0)	(0)	(1)	(0)
RESPIRATORY SYSTEM					
Lung	(0)	(0)	(0)	(1)	(0)
Infiltration Cellular, Histiocyte				1 (100%)	
Peribronchiolr, Infiltration Cellular, Lymphocyte				1 (100%)	
Trachea	(0)	(0)	(0)	(1)	(0)

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<hr/>					
SPECIAL SENSES SYSTEM					
None					
<hr/>					
URINARY SYSTEM					
Kidney	(25)		(0)	(1)	(25)
Cortex, Cyst	1 (4%)				4 (16%)
Epithelium, Pelvis, Hyperplasia					1 (4%)
Hyaline Droplet					4 (16%)
Infiltration Cellular, Lymphocyte	14 (56%)			1 (100%)	13 (52%)
Inflammation, Chronic	1 (4%)				
Interstitial, Fibrosis				1 (100%)	2 (8%)
Renal Tubule, Dilatation	2 (8%)				5 (20%)
Renal Tubule, Mineralization					1 (4%)
Renal Tubule, Regeneration	8 (32%)				11 (44%)
Urinary Bladder	(0)		(0)	(1)	(0)

END OF MALE DATA

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Disposition Summary					
Animals Initially In Study		25	25	26	25
Early Deaths					
Natural Death				1	
Survivors					
Terminal Sacrifice		25	25	25	25
Animals Examined Microscopically		25	25	26	25
ALIMENTARY SYSTEM					
Esophagus		(0)	(0)	(1)	(0)
Liver		(25)	(0)	(1)	(25)
Developmental Malformation		1 (4%)			
Pancreas		(0)	(0)	(1)	(0)
CARDIOVASCULAR SYSTEM					
Blood Vessel		(0)	(0)	(1)	(0)
Heart		(0)	(0)	(1)	(0)
ENDOCRINE SYSTEM					
Adrenal Cortex		(25)	(0)	(2)	(25)
Adrenal Medulla		(25)	(0)	(2)	(25)
Pituitary Gland		(25)	(0)	(1)	(25)
Thyroid Gland		(25)	(0)	(1)	(25)
Bilateral, Keratin Cyst		1 (4%)			
Keratin Cyst		1 (4%)			1 (4%)
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Clitoral Gland		(3)	(0)	(0)	(0)
Distended		3 (100%)			

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Inflammation, Chronic Active	3 (100%)				
Ovary	(25)		(25)	(26)	(25)
Corpus Luteum, Cyst					1 (4%)
Cyst	2 (8%)		1 (4%)		
Diestrus	6 (24%)		7 (28%)	9 (35%)	8 (32%)
Estrus	7 (28%)		11 (44%)	2 (8%)	2 (8%)
Follicle, Cyst	1 (4%)				1 (4%)
Metestrus	4 (16%)		3 (12%)	3 (12%)	6 (24%)
Proestrus	8 (32%)		4 (16%)	12 (46%)	9 (36%)
Oviduct	(25)		(25)	(26)	(25)
Uterus	(25)		(25)	(26)	(25)
Diestrus	5 (20%)		6 (24%)	7 (27%)	7 (28%)
Estrus	7 (28%)		11 (44%)	2 (8%)	2 (8%)
Metestrus	5 (20%)		4 (16%)	5 (19%)	7 (28%)
Proestrus	8 (32%)		4 (16%)	12 (46%)	9 (36%)
Vagina	(25)		(25)	(26)	(25)
Diestrus	5 (20%)		6 (24%)	7 (27%)	7 (28%)
Estrus	8 (32%)		7 (28%)	4 (15%)	5 (20%)
Metestrus	5 (20%)		8 (32%)	5 (19%)	5 (20%)
Proestrus	7 (28%)		4 (16%)	10 (38%)	8 (32%)
HEMATOPOIETIC SYSTEM					
Bone Marrow	(25)		(0)	(1)	(25)
Lymph Node	(0)		(0)	(1)	(0)
Lymph Node, Mandibular	(0)		(0)	(1)	(0)
Spleen	(25)		(0)	(2)	(25)
Thymus	(25)		(0)	(1)	(25)
INTEGUMENTARY SYSTEM					
Mammary Gland	(25)		(25)	(26)	(25)
Alveolus, Hyperplasia	11 (44%)		14 (56%)	7 (27%)	9 (36%)

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Lobules, Hyperplasia	4 (16%)		10 (40%)	2 (8%)	4 (16%)
Skin	(0)		(0)	(1)	(0)
MUSCULOSKELETAL SYSTEM					
Bone	(25)		(0)	(1)	(25)
NERVOUS SYSTEM					
Brain	(0)		(0)	(1)	(0)
RESPIRATORY SYSTEM					
Lung	(0)		(0)	(1)	(0)
Trachea	(0)		(0)	(1)	(0)
SPECIAL SENSES SYSTEM					
None					
URINARY SYSTEM					
Kidney	(25)		(25)	(26)	(25)
Cortex, Cyst	2 (8%)				2 (8%)
Cyst				1 (4%)	
Nephropathy			1 (4%)	1 (4%)	2 (8%)
Renal Tubule, Mineralization	24 (96%)		19 (76%)	19 (73%)	19 (76%)

**** END OF REPORT ****