

Experiment Number: 99920-99
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: 10:32:02

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	F0	CONTROL	F0	2.0 PPB	F0	10 PPB	F0	50 PPB
Disposition Summary								
Animals Initially In Study		25		25		25		26
Early Deaths								
Natural Death		1						1
Survivors								
Terminal Sacrifice		24		25		25		25
Animals Examined Microscopically		25		25		25		26
ALIMENTARY SYSTEM								
Esophagus		(1)		(0)		(0)		(1)
Liver		(24)		(1)		(2)		(25)
Basophilic Focus								1 (4%)
Developmental Malformation				1 (100%)				
Hepatodiaphragmatic Nodule		1 (4%)				2 (100%)		
Infiltration Cellular, Lymphocyte		6 (25%)						8 (32%)
Inflammation, Chronic Active		3 (13%)						4 (16%)
Pancreas		(1)		(0)		(0)		(0)
Acinus, Degeneration		1 (100%)						
CARDIOVASCULAR SYSTEM								
Blood Vessel		(1)		(0)		(0)		(1)
Heart		(1)		(0)		(0)		(1)
ENDOCRINE SYSTEM								
Adrenal Cortex		(24)		(0)		(0)		(26)
Vacuolization Cytoplasmic		1 (4%)						
Adrenal Medulla		(23)		(0)		(0)		(26)
Pituitary Gland		(24)		(0)		(0)		(25)
Pars Distalis, Cyst								2 (8%)
Thyroid Gland		(24)		(0)		(0)		(25)
Cyst, Squamous		4 (17%)						3 (12%)

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

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Cyst, Squamous, Multiple								1 (4%)
GENERAL BODY SYSTEM								
None								
GENITAL SYSTEM								
Coagulating Gland		(24)		(25)		(25)		(24)
Bilateral, Developmental Malformation		3 (13%)		1 (4%)				
Developmental Malformation		7 (29%)		7 (28%)		8 (32%)		8 (33%)
Epididymis		(25)		(25)		(25)		(26)
Atrophy		1 (4%)						
Hypospermia		1 (4%)						
Infiltration Cellular, Lymphocyte		2 (8%)		3 (12%)				1 (4%)
Preputial Gland		(0)		(2)		(3)		(2)
Duct, Dilatation				1 (50%)		2 (67%)		1 (50%)
Infiltration Cellular, Lymphocyte						1 (33%)		
Inflammation, Suppurative				2 (100%)		2 (67%)		1 (50%)
Prostate, Dorsal/Lateral Lobe		(5)		(5)		(8)		(9)
Infiltration Cellular, Lymphocyte		3 (60%)		1 (20%)		4 (50%)		1 (11%)
Inflammation, Suppurative		2 (40%)		4 (80%)		4 (50%)		8 (89%)
Prostate, Dorsal/lateral Lobe		(19)		(20)		(17)		(17)
Prostate, Ventral Lobe		(24)		(25)		(25)		(26)
Infiltration Cellular, Lymphocyte		20 (83%)		18 (72%)		19 (76%)		21 (81%)
Rete Testes		(25)		(23)		(24)		(25)
Dilatation		1 (4%)		1 (4%)		1 (4%)		
Seminal Vesicle		(24)		(25)		(25)		(25)
Depletion Secretory		3 (13%)		2 (8%)		1 (4%)		2 (8%)
Testes		(25)		(25)		(25)		(26)
Seminif Tub, Degeneration		6 (24%)		2 (8%)		6 (24%)		1 (4%)
HEMATOPOIETIC SYSTEM								
Bone Marrow		(24)		(0)		(0)		(25)

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CD Rat MALE	F0	CONTROL	F0	2.0 PPB	F0	10 PPB	F0	50 PPB
Spleen	(24)		(0)		(0)		(25)	
Hyperplasia, Lymphoid	1 (4%)						1 (4%)	
Pigmentation	2 (8%)						7 (28%)	
Thymus	(24)		(0)		(0)		(25)	
INTEGUMENTARY SYSTEM								
Mammary Gland	(24)		(24)		(25)		(25)	
Alveolus, Dilatation					1 (4%)			
Alveolus, Hyperplasia	1 (4%)		2 (8%)		5 (20%)		10 (40%)	
Duct, Hyperplasia	2 (8%)		1 (4%)		2 (8%)		2 (8%)	
Skin	(1)		(1)		(0)		(1)	
Epidermis, Hyperplasia			1 (100%)					
Hyperkeratosis			1 (100%)					
MUSCULOSKELETAL SYSTEM								
Bone	(25)		(0)		(0)		(26)	
NERVOUS SYSTEM								
Brain	(1)		(0)		(0)		(1)	
Spinal Cord	(1)		(0)		(0)		(0)	
RESPIRATORY SYSTEM								
Lung	(1)		(0)		(0)		(1)	
Trachea	(0)		(0)		(0)		(1)	
SPECIAL SENSES SYSTEM								
Eye	(1)		(0)		(0)		(0)	
Autolysis	1 (100%)							
URINARY SYSTEM								
Kidney	(24)		(4)		(0)		(25)	
Cortex, Cyst	4 (17%)		1 (25%)				4 (16%)	
Hyaline Droplet	2 (8%)						6 (24%)	

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Infiltration Cellular, Lymphocyte	17	(71%)	2	(50%)			19	(76%)
Interstitialium, Fibrosis	2	(8%)	1	(25%)			1	(4%)
Pelvis, Dilatation							1	(4%)
Renal Tubule, Degeneration	2	(8%)	2	(50%)			3	(12%)
Renal Tubule, Dilatation	6	(25%)	1	(25%)			9	(36%)
Renal Tubule, Mineralization	1	(4%)					1	(4%)
Renal Tubule, Regeneration	10	(42%)	2	(50%)			12	(48%)
Urinary Bladder		(1)		(0)		(0)		(1)

END OF MALE DATA

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Disposition Summary								
Animals Initially In Study		25		25		25		25
Early Deaths								
Survivors								
Terminal Sacrifice		25		25		25		25
Animals Examined Microscopically		25		25		25		25
ALIMENTARY SYSTEM								
Liver		(25)		(2)		(2)		(25)
Developmental Malformation		3 (12%)		1 (50%)		2 (100%)		
Fatty Change, Focal		1 (4%)						
Hepatodiaphragmatic Nodule				1 (50%)				
Inflammation, Chronic Active		4 (16%)						3 (12%)
CARDIOVASCULAR SYSTEM								
None								
ENDOCRINE SYSTEM								
Adrenal Cortex		(25)		(0)		(0)		(25)
Accessory Adrenal Cortical Nodule		1 (4%)						
Unilateral, Accessory Adrenal Cortical Nodule								1 (4%)
Adrenal Medulla		(25)		(0)		(0)		(25)
Pituitary Gland		(25)		(0)		(0)		(25)
Cyst		1 (4%)						
Thyroid Gland		(25)		(0)		(0)		(25)
GENERAL BODY SYSTEM								
None								
GENITAL SYSTEM								
Clitoral Gland		(2)		(1)		(2)		(0)
Distended		2 (100%)		1 (100%)		2 (100%)		

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Inflammation, Chronic Active	2 (100%)		1 (100%)					
Ovary	(25)		(25)		(25)		(25)	
Corpus Luteum, Cyst	1 (4%)		1 (4%)					
Corpus Luteum, Depletion							1 (4%)	
Cyst			1 (4%)		1 (4%)			
Diestrus	7 (28%)		6 (24%)		8 (32%)		6 (24%)	
Estrus	8 (32%)		8 (32%)		6 (24%)		11 (44%)	
Follicle, Cyst					1 (4%)			
Follicle, Cyst, Multiple							1 (4%)	
Metestrus	4 (16%)		4 (16%)		3 (12%)		1 (4%)	
Proestrus	6 (24%)		7 (28%)		8 (32%)		6 (24%)	
Oviduct	(24)		(25)		(25)		(25)	
Mucosa, Hyperplasia			1 (4%)					
Uterus	(25)		(25)		(25)		(25)	
Diestrus	7 (28%)		7 (28%)		9 (36%)		5 (20%)	
Endometrial Gl, Dilatation			1 (4%)					
Endometrial Gl, Hyperplasia					1 (4%)			
Estrus	7 (28%)		7 (28%)		6 (24%)		12 (48%)	
Metestrus	4 (16%)		4 (16%)		3 (12%)		1 (4%)	
Proestrus	7 (28%)		7 (28%)		7 (28%)		7 (28%)	
Vagina	(25)		(25)		(25)		(25)	
Diestrus	6 (24%)		5 (20%)		6 (24%)		6 (24%)	
Epithelium, Hyperplasia							1 (4%)	
Estrus	6 (24%)		8 (32%)		6 (24%)		9 (36%)	
Metestrus	7 (28%)		5 (20%)		3 (12%)		4 (16%)	
Proestrus	6 (24%)		7 (28%)		10 (40%)		5 (20%)	
HEMATOPOIETIC SYSTEM								
Bone Marrow	(25)		(0)		(0)		(25)	
Spleen	(25)		(0)		(0)		(25)	
Fibrosis, Focal	1 (4%)							

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Pigmentation	3 (12%)						6 (24%)	
Thymus	(25)		(0)		(0)		(25)	
INTEGUMENTARY SYSTEM								
Mammary Gland	(25)		(25)		(25)		(25)	
Alveolus, Hyperplasia	1 (4%)		4 (16%)		3 (12%)		4 (16%)	
Skin	(2)		(3)		(1)		(0)	
Hyperkeratosis, Focal			1 (33%)					
Inflammation, Chronic, Focal	1 (50%)							
MUSCULOSKELETAL SYSTEM								
Bone	(25)		(0)		(0)		(25)	
NERVOUS SYSTEM								
None								
RESPIRATORY SYSTEM								
None								
SPECIAL SENSES SYSTEM								
None								
URINARY SYSTEM								
Kidney	(25)		(25)		(25)		(25)	
Arteriole, Nuclear Alteration							1 (4%)	
Cortex, Cyst	3 (12%)		3 (12%)					
Infarct	1 (4%)		1 (4%)		1 (4%)			
Inflammation, Chronic Active			1 (4%)					
Nephropathy	2 (8%)						3 (12%)	
Renal Tubule, Degeneration, Focal			1 (4%)					
Renal Tubule, Dilatation, Focal					2 (8%)			
Renal Tubule, Mineralization	20 (80%)		22 (88%)		24 (96%)		17 (68%)	

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