

Experiment Number: 99920-97
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: 12:01:32

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	F2	CONTROL	F2	2.0 PPB	F2	10 PPB	F2	50 PPB
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								
Intestine Small, Ileum		(0)		(1)		(0)		(0)
Hyperplasia, Lymphoid				1 (100%)				
Liver		(25)		(1)		(1)		(25)
Erythrophagocytosis								1 (4%)
Hematopoietic Cell Proliferation								1 (4%)
Hepatodiaphragmatic Nodule				1 (100%)		1 (100%)		1 (4%)
Infiltration Cellular, Lymphocyte		3 (12%)						1 (4%)
Inflammation, Chronic Active		10 (40%)						12 (48%)
CARDIOVASCULAR SYSTEM								
None								
ENDOCRINE SYSTEM								
Adrenal Cortex		(25)		(0)		(0)		(25)
Vacuolization Cytoplasmic		1 (4%)						
Adrenal Medulla		(24)		(0)		(0)		(25)
Pituitary Gland		(23)		(0)		(0)		(25)
Pars Distalis, Cyst, Multiple		1 (4%)						
Pars Distalis, Hypertrophy								1 (4%)
Thyroid Gland		(24)		(0)		(0)		(25)
Cyst, Squamous		4 (17%)						3 (12%)
Cyst, Squamous, Multiple								2 (8%)
Ectopic Thymus		1 (4%)						

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

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GENERAL BODY SYSTEM								
None								
GENITAL SYSTEM								
Coagulating Gland		(25)		(23)		(25)		(25)
Developmental Malformation		8 (32%)		5 (22%)		8 (32%)		8 (32%)
Epididymis		(25)		(25)		(25)		(25)
Atrophy		2 (8%)		2 (8%)		1 (4%)		1 (4%)
Hypospermia		3 (12%)		2 (8%)		1 (4%)		1 (4%)
Infiltration Cellular, Lymphocyte		1 (4%)		1 (4%)				1 (4%)
Preputial Gland		(0)		(2)		(0)		(0)
Duct, Dilatation				1 (50%)				
Inflammation, Suppurative				2 (100%)				
Prostate, Dorsal/Lateral Lobe		(12)		(11)		(17)		(13)
Infiltration Cellular, Lymphocyte		8 (67%)		10 (91%)		15 (88%)		10 (77%)
Inflammation, Suppurative		4 (33%)		1 (9%)		2 (12%)		3 (23%)
Prostate, Dorsal/lateral Lobe		(13)		(14)		(8)		(12)
Prostate, Ventral Lobe		(25)		(25)		(25)		(25)
Infiltration Cellular, Lymphocyte		9 (36%)		8 (32%)		8 (32%)		11 (44%)
Inflammation, Suppurative				4 (16%)		1 (4%)		4 (16%)
Rete Testes		(24)		(24)		(23)		(25)
Dilatation		2 (8%)				1 (4%)		1 (4%)
Seminal Vesicle		(25)		(25)		(25)		(25)
Depletion Secretory		1 (4%)		1 (4%)				1 (4%)
Testes		(25)		(25)		(25)		(25)
Seminif Tub, Degeneration		4 (16%)		3 (12%)		2 (8%)		1 (4%)
HEMATOPOIETIC SYSTEM								
Bone Marrow		(25)		(0)		(0)		(25)
Erythroid Cell, Hyperplasia								1 (4%)
Myeloid Cell, Hyperplasia		2 (8%)						

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Spleen	(25)		(0)		(0)		(25)	
Hematopoietic Cell Proliferation	1 (4%)						1 (4%)	
Pigmentation	1 (4%)						4 (16%)	
Thymus	(25)		(1)		(0)		(25)	
Hemorrhage	1 (4%)		1 (100%)					
INTEGUMENTARY SYSTEM								
Mammary Gland	(25)		(25)		(25)		(25)	
Alveolus, Hyperplasia	3 (12%)		3 (12%)		7 (28%)		13 (52%)	
Duct, Hyperplasia			5 (20%)		8 (32%)		12 (48%)	
MUSCULOSKELETAL SYSTEM								
Bone	(25)		(0)		(0)		(25)	
NERVOUS SYSTEM								
None								
RESPIRATORY SYSTEM								
None								
SPECIAL SENSES SYSTEM								
None								
URINARY SYSTEM								
Kidney	(25)		(0)		(25)		(25)	
Casts Protein	1 (4%)							
Cortex, Cyst	4 (16%)				2 (8%)		4 (16%)	
Hyaline Droplet	7 (28%)				1 (4%)		8 (32%)	
Infiltration Cellular, Lymphocyte	21 (84%)				7 (28%)		21 (84%)	
Inflammation, Chronic	1 (4%)				1 (4%)			
Interstitial, Fibrosis							1 (4%)	
Pelvis, Dilatation					2 (8%)			
Renal Tubule, Degeneration					1 (4%)		1 (4%)	

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Renal Tubule, Dilatation		5 (20%)			2 (8%)		8 (32%)	
Renal Tubule, Mineralization		1 (4%)					10 (40%)	
Renal Tubule, Regeneration		12 (48%)			6 (24%)		10 (40%)	

END OF MALE DATA

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CD Rat FEMALE	F2	CONTROL	F2	2.0 PPB	F2	10 PPB	F2	50 PPB
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								
Intestine Small, Ileum		(1)		(0)		(0)		(0)
Peyers Patch, Hyperplasia, Lymphoid		1 (100%)						
Liver		(25)		(0)		(3)		(25)
Clear Cell Focus								1 (4%)
Developmental Malformation		2 (8%)				1 (33%)		
Infiltration Cellular, Mast Cell, Focal		1 (4%)						
Inflammation, Chronic						1 (33%)		
Proliferation Connective Tissue, Focal		1 (4%)				1 (33%)		
CARDIOVASCULAR SYSTEM								
None								
ENDOCRINE SYSTEM								
Adrenal Cortex		(25)		(0)		(0)		(25)
Adrenal Medulla		(25)		(0)		(0)		(25)
Pituitary Gland		(25)		(0)		(0)		(25)
Cyst								1 (4%)
Thyroid Gland		(25)		(0)		(0)		(25)
Ultimobranchial Cyst								1 (4%)
GENERAL BODY SYSTEM								
None								
GENITAL SYSTEM								

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Clitoral Gland		(1)		(2)		(1)		(0)
Abscess				1 (50%)				
Distended	1 (100%)		1 (50%)		1 (100%)			
Inflammation, Chronic			1 (50%)					
Inflammation, Chronic Active	1 (100%)		1 (50%)		1 (100%)			
Ovary	(25)		(25)		(25)		(25)	
Corpus Luteum, Cyst			1 (4%)					
Cyst	1 (4%)				1 (4%)			
Diestrus	12 (48%)		14 (56%)		13 (52%)		8 (32%)	
Estrus	5 (20%)		4 (16%)		5 (20%)		5 (20%)	
Metestrus	2 (8%)		4 (16%)		2 (8%)		5 (20%)	
Proestrus	6 (24%)		3 (12%)		5 (20%)		7 (28%)	
Oviduct	(25)		(25)		(25)		(25)	
Uterus	(25)		(25)		(25)		(25)	
Diestrus	10 (40%)		12 (48%)		11 (44%)		8 (32%)	
Estrus	4 (16%)		4 (16%)		5 (20%)		5 (20%)	
Metestrus	6 (24%)		6 (24%)		4 (16%)		5 (20%)	
Proestrus	5 (20%)		3 (12%)		5 (20%)		7 (28%)	
Vagina	(25)		(25)		(25)		(23)	
Diestrus	11 (44%)		12 (48%)		10 (40%)		7 (30%)	
Estrus	6 (24%)		4 (16%)		5 (20%)		7 (30%)	
Metestrus	3 (12%)		6 (24%)		5 (20%)		4 (17%)	
Mucocyte, Hyperplasia			2 (8%)					
Proestrus	5 (20%)		3 (12%)		5 (20%)		5 (22%)	
HEMATOPOIETIC SYSTEM								
Bone Marrow	(25)		(0)		(0)		(25)	
Spleen	(25)		(0)		(0)		(25)	
Pigmentation	1 (4%)						1 (4%)	
Thymus	(25)		(0)		(0)		(25)	

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INTEGUMENTARY SYSTEM								
Mammary Gland		(25)		(25)		(25)		(25)
Alveolus, Hyperplasia		14 (56%)		15 (60%)		12 (48%)		11 (44%)
Lobules, Hyperplasia		7 (28%)		10 (40%)		13 (52%)		13 (52%)
MUSCULOSKELETAL SYSTEM								
Bone		(25)		(0)		(0)		(25)
NERVOUS SYSTEM								
None								
RESPIRATORY SYSTEM								
None								
SPECIAL SENSES SYSTEM								
None								
URINARY SYSTEM								
Kidney		(25)		(25)		(25)		(25)
Cortex, Cyst		3 (12%)		1 (4%)		3 (12%)		2 (8%)
Infarct						2 (8%)		
Inflammation, Chronic Active				1 (4%)				1 (4%)
Nephropathy						1 (4%)		
Renal Tubule, Mineralization		18 (72%)		23 (92%)		20 (80%)		15 (60%)

**** END OF REPORT ****