

Experiment Number: 99920-98
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

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

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)
CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 09:37:43
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	F1	CONTROL	F1	2.0 PPB	F1	10 PPB	F1	50 PPB
Disposition Summary								
Animals Initially In Study		25		25		25		26
Early Deaths								
Moribund Sacrifice								1
Survivors								
Terminal Sacrifice		25		25		25		25
Animals Examined Microscopically		25		25		25		26
ALIMENTARY SYSTEM								
Esophagus		(0)		(0)		(0)		(1)
Liver		(25)		(1)		(1)		(26)
Hepatodiaphragmatic Nodule				1		1		3
Infiltration Cellular, Lymphocyte		5 [1.0]						
Inflammation, Chronic Active		6 [1.0]						10 [1.1]
Vacuolization Cytoplasmic								1 [1.0]
Mesentery		(1)		(0)		(1)		(0)
Fat, Necrosis		1 [4.0]				1 [4.0]		
Oral Mucosa		(0)		(0)		(0)		(1)
Abscess								1 [4.0]
Pancreas		(0)		(0)		(0)		(1)
CARDIOVASCULAR SYSTEM								
Blood Vessel		(0)		(0)		(0)		(1)
Heart		(0)		(0)		(0)		(1)
Cardiomyopathy								1 [1.0]
ENDOCRINE SYSTEM								
Adrenal Cortex		(25)		(0)		(0)		(26)
Vacuolization Cytoplasmic		3 [1.0]						1 [1.0]
Adrenal Medulla		(25)		(0)		(0)		(26)

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Pituitary Gland		(24)		(0)		(0)		(26)
Pars Distalis, Cyst								1
Pars Distalis, Cyst, Multiple								2
Thyroid Gland		(25)		(0)		(0)		(26)
Cyst, Squamous		2						
Cyst, Squamous, Multiple		1						1

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Coagulating Gland		(25)		(24)		(25)		(26)
Bilateral, Developmental Malformation		2						1
Developmental Malformation		4		3		2		4
Epididymis		(25)		(25)		(25)		(26)
Atrophy				3 [3.0]		1 [2.0]		
Epithelium, Degeneration						1 [2.0]		
Hypospermia				3 [4.0]		1 [4.0]		1 [4.0]
Infiltration Cellular, Lymphocyte		2 [1.0]		2 [1.0]		5 [1.0]		
Preputial Gland		(3)		(2)		(3)		(1)
Atrophy		2 [1.5]		1 [3.0]		1 [2.0]		
Bilateral, Atrophy						1 [2.0]		
Infiltration Cellular, Lymphocyte				1 [2.0]				
Inflammation, Suppurative		1 [2.0]		1 [4.0]				
Prostate, Dorsal/Lateral Lobe		(9)		(3)		(10)		(4)
Infiltration Cellular, Lymphocyte		3 [1.3]		1 [1.0]		5 [1.0]		
Inflammation, Suppurative		6 [1.7]		2 [2.0]		5 [2.0]		4 [1.3]
Prostate, Dorsal/lateral Lobe		(16)		(22)		(15)		(22)
Prostate, Ventral Lobe		(25)		(25)		(25)		(26)
Infiltration Cellular, Lymphocyte		17 [1.7]		16 [1.3]		19 [1.4]		17 [1.7]

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Inflammation, Suppurative	2 [1.0]		1 [2.0]					
Rete Testes	(25)		(23)		(24)		(25)	
Dilatation			4 [2.5]		2 [2.5]			
Seminal Vesicle	(25)		(25)		(25)		(26)	
Depletion Secretory	2 [3.0]				1 [4.0]			
Testes	(25)		(25)		(25)		(26)	
Seminif Tub, Degeneration	2 [1.5]		5 [3.8]		3 [3.3]		2 [2.5]	
HEMATOPOIETIC SYSTEM								
Bone Marrow	(25)		(0)		(0)		(26)	
Spleen	(25)		(0)		(0)		(26)	
Hematopoietic Cell Proliferation	1 [2.0]							
Hyperplasia, Lymphoid							1 [1.0]	
Pigmentation	1 [1.0]						4 [1.0]	
Thymus	(25)		(0)		(0)		(26)	
INTEGUMENTARY SYSTEM								
Mammary Gland	(25)		(24)		(25)		(26)	
Alveolus, Hyperplasia	1 [3.0]		7 [1.6]		11 [1.8]		10 [2.6]	
Duct, Hyperplasia			1 [2.0]		5 [1.6]		10 [2.0]	
Skin	(0)		(0)		(0)		(1)	
MUSCULOSKELETAL SYSTEM								
Bone	(25)		(0)		(0)		(26)	
NERVOUS SYSTEM								
Brain	(0)		(0)		(0)		(1)	
Spinal Cord	(0)		(0)		(0)		(1)	
RESPIRATORY SYSTEM								
Lung	(0)		(0)		(0)		(1)	
Trachea	(0)		(0)		(0)		(1)	

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SPECIAL SENSES SYSTEM								
None								
URINARY SYSTEM								
Kidney		(25)		(2)		(25)		(26)
Congestion		2 [2.0]		1 [2.0]				2 [2.0]
Cortex, Cyst		4		1		3		1
Cortex, Cyst, Multiple								1
Developmental Malformation				1				
Hyaline Droplet		4 [1.3]				1 [1.0]		5 [1.2]
Infiltration Cellular, Lymphocyte		18 [1.1]		1 [1.0]		12 [1.0]		17 [1.1]
Inflammation, Chronic		1 [2.0]				1 [1.0]		1 [1.0]
Interstitial, Fibrosis		4 [1.3]						1 [2.0]
Renal Tubule, Degeneration								1 [1.0]
Renal Tubule, Dilatation		9 [1.7]				6 [1.5]		11 [1.6]
Renal Tubule, Hyperplasia						1 [2.0]		1 [1.0]
Renal Tubule, Mineralization								9 [1.3]
Renal Tubule, Regeneration		9 [1.0]				4 [1.0]		13 [1.1]
Urinary Bladder		(0)		(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)		(0)		(0)		(25)
Basophilic Focus, Multiple								1
Developmental Malformation		1						2
Inflammation, Chronic Active		5 [1.0]						1 [1.0]
CARDIOVASCULAR SYSTEM								
None								
ENDOCRINE SYSTEM								
Adrenal Cortex		(25)		(0)		(0)		(25)
Hypertrophy, Focal								1 [1.0]
Adrenal Medulla		(25)		(0)		(0)		(25)
Pituitary Gland		(25)		(0)		(0)		(25)
Thyroid Gland		(25)		(1)		(0)		(25)
Ectopic Thymus				1				
Ultimobranchial Cyst		2						1
GENERAL BODY SYSTEM								
None								
GENITAL SYSTEM								
Clitoral Gland		(1)		(2)		(0)		(1)
Cyst								1

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Distended		1		2				
Inflammation, Chronic Active		1 [2.0]		2 [3.0]				
Ovary		(25)		(25)		(25)		(25)
Asynchrony						1		
Corpus Luteum, Cyst		1						1
Cyst						1		1
Diestrus		9		6		6		11
Estrus		4		2		6		3
Follicle, Cyst		1						
Hyperplasia, Sertoliform								3 [1.3]
Metestrus		5		7		6		3
Proestrus		7		10		6		8
Rete Ovarii, Dilatation								1 [2.0]
Oviduct		(25)		(25)		(25)		(25)
Uterus		(25)		(25)		(25)		(25)
Cyst						1		
Diestrus		9		6		7		11
Estrus		4		3		6		3
Metestrus		5		6		6		3
Proestrus		7		10		6		8
Vagina		(24)		(25)		(25)		(25)
Diestrus		10		6		5		11
Estrus		4		4		6		6
Metestrus		4		7		8		3
Proestrus		6		8		6		5
HEMATOPOIETIC SYSTEM								
Bone Marrow		(25)		(0)		(0)		(25)
Spleen		(25)		(0)		(0)		(25)
Pigmentation		2 [1.0]						2 [1.5]

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Thymus		(25)		(0)		(0)		(25)
INTEGUMENTARY SYSTEM								
Mammary Gland		(25)		(25)		(25)		(25)
Alveolus, Hyperplasia		5 [1.2]		6 [1.2]		5 [1.2]		5 [1.4]
MUSCULOSKELETAL SYSTEM								
Bone		(25)		(0)		(0)		(25)
NERVOUS SYSTEM								
None								
RESPIRATORY SYSTEM								
None								
SPECIAL SENSES SYSTEM								
Eye		(0)		(0)		(1)		(1)
Bilateral, Cataract								1
Cornea, Edema						1		
URINARY SYSTEM								
Kidney		(25)		(25)		(25)		(25)
Cortex, Cyst				3				6
Infarct				1				
Nephropathy						1 [1.0]		
Pelvis, Dilatation		1 [3.0]		1 [4.0]				
Renal Tubule, Mineralization		21 [1.9]		18 [2.0]		21 [1.7]		17 [1.2]

**** END OF REPORT ****

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