

Experiment Number: 99930-97
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 (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/17/2014
Time Report Requested: 12:41:00
First Dose M/F: NA / NA
Lab: NCTR

C Number:	MG96005
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	0 PPM	F2	5 PPM	F2	100 PPM	F2	500 PPM
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)
Inflammation, Chronic		18 [1.0]						22 [1.0]
Malformation		1						
Necrosis		1 [1.0]						1 [1.0]
Vacuolization Cytoplasmic		3 [1.0]						2 [1.0]
CARDIOVASCULAR SYSTEM								
None								
ENDOCRINE SYSTEM								
Adrenal Cortex		(25)		(0)		(0)		(25)
Accessory Adrenal Cortical Nodule		2						
Vacuolization Cytoplasmic								1 [2.0]
Adrenal Medulla		(25)		(0)		(0)		(25)
Pituitary Gland		(25)		(0)		(0)		(25)
Pars Distalis, Cyst		1						
Pars Distalis, Cyst, Multiple		2						1
Pars Distalis, Vacuolization Cytoplasmic		3 [1.7]						
Thyroid Gland		(25)		(0)		(0)		(25)
GENERAL BODY SYSTEM								
None								

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GENITAL SYSTEM								
Coagulating Gland		(24)		(25)		(24)		(24)
Epididymis		(25)		(25)		(25)		(25)
Degeneration								1 [3.0]
Hypospermia						1 [3.0]		1 [4.0]
Infiltration Cellular, Lymphocyte		1 [1.0]						
Prostate		(5)		(9)		(5)		(6)
Prostate, Dorsal Lobe		(25)		(25)		(25)		(25)
Epithelium, Hyperplasia						1 [1.0]		
Inflammation, Chronic		7 [1.3]		4 [1.3]		6 [1.2]		6 [1.2]
Inflammation, Suppurative		4 [1.3]		6 [1.5]		8 [1.6]		7 [1.3]
Prostate, Ventral Lobe		(25)		(25)		(25)		(25)
Inflammation, Chronic		19 [1.5]		15 [1.6]		15 [1.5]		17 [1.4]
Inflammation, Suppurative		6 [1.7]		2 [2.0]		6 [1.3]		5 [1.2]
Rete Testes		(25)		(22)		(25)		(20)
Dilatation						2 [2.0]		
Seminal Vesicle		(25)		(25)		(25)		(25)
Dilatation		1 [1.0]		1 [2.0]				2 [2.0]
Epithelium, Hyperplasia				1 [2.0]				
Inflammation, Chronic				1 [1.0]		1 [1.0]		
Testes		(25)		(25)		(25)		(24)
Seminif Tub, Degeneration		3 [1.7]				2 [3.0]		1 [1.0]
HEMATOPOIETIC SYSTEM								
Bone Marrow		(25)		(0)		(0)		(25)
Spleen		(25)		(0)		(0)		(25)
Adventitia, Inflammation, Chronic		1 [1.0]						
Hyperplasia, Stromal								1 [1.0]
Pigmentation		5 [1.4]						4 [1.0]

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Thymus Atrophy	(25)	(0)	(1) 1 [3.0]	(25)
INTEGUMENTARY SYSTEM				
Mammary Gland	(24)	(25)	(25)	(25)
Alveolus, Hyperplasia	2 [2.0]		7 [1.3]	18 [1.4]
Duct, Hyperplasia			1 [1.0]	10 [1.4]
Skin	(25)	(0)	(0)	(25)
MUSCULOSKELETAL SYSTEM				
Bone, Femur	(25)	(0)	(0)	(25)
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
None				
SPECIAL SENSES SYSTEM				
None				
URINARY SYSTEM				
Kidney	(25)	(25)	(25)	(25)
Capsule, Fat, Cyst		1	1	1
Casts Protein		2 [1.0]		
Cortex, Cyst		1		2
Inflammation, Chronic	20 [1.1]	16 [1.0]	16 [1.0]	23 [1.0]
Pelvis, Dilatation				1 [2.0]
Renal Tubule, Dilatation	8 [1.8]	1 [1.0]	5 [1.8]	6 [1.3]
Renal Tubule, Mineralization		1 [1.0]	4 [1.0]	6 [1.0]
Renal Tubule, Regeneration	8 [1.0]	3 [1.0]	8 [1.0]	9 [1.0]
Urinary Bladder	(0)	(0)	(0)	(1)

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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)		(0)		(25)
Bile Duct, Inflammation								1
Developmental Malformation				2				1
Inflammation, Chronic Active, Focal								1 [1.0]
Median Lobe, Developmental Malformation		1						1
Necrosis, Focal								1 [1.0]
Pancreas		(1)		(0)		(0)		(0)
CARDIOVASCULAR SYSTEM								
None								
ENDOCRINE SYSTEM								
Adrenal Cortex		(25)		(0)		(0)		(25)
Adrenal Medulla		(25)		(0)		(0)		(25)
Pituitary Gland		(25)		(0)		(0)		(25)
Thyroid Gland		(25)		(0)		(0)		(25)
Cyst								1
GENERAL BODY SYSTEM								
None								
GENITAL SYSTEM								
Ovary		(25)		(25)		(25)		(25)

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Cyst								1
Diestrus	7		6		6			6
Estrus	5		7		6			2
Metestrus	6		4		6			7
Proestrus	7		8		7			10
Oviduct	(25)		(25)		(25)			(25)
Uterus	(25)		(25)		(25)			(25)
Decidual Reaction	24		24		24			22
Diestrus	7		6		6			6
Estrus	5		7		6			2
Metestrus	6		4		6			7
Proestrus	7		8		7			10
Vagina	(24)		(23)		(24)			(23)
Diestrus	7		6		6			6
Estrus	6		8		8			2
Metestrus	6		4		6			7
Proestrus	5		5		4			8
HEMATOPOIETIC SYSTEM								
Bone Marrow	(25)		(0)		(0)			(25)
Spleen	(25)		(0)		(0)			(25)
Thymus	(25)		(0)		(0)			(25)
INTEGUMENTARY SYSTEM								
Mammary Gland	(24)		(25)		(25)			(25)
Alveolus, Hyperplasia	18 [1.6]		15 [1.9]		16 [1.7]			21 [1.6]
Skin	(25)		(0)		(0)			(25)
MUSCULOSKELETAL SYSTEM								
Bone, Femur	(25)		(0)		(0)			(25)

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CD Rat FEMALE	F2 0 PPM	F2 5 PPM	F2 100 PPM	F2 500 PPM
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
None				
SPECIAL SENSES SYSTEM				
None				
URINARY SYSTEM				
Kidney	(25)	(25)	(25)	(25)
Bilateral, Cyst		1		
Cyst		2	2	2
Infarct				1
Inflammation, Chronic Active		2 [1.5]	2 [1.5]	
Mineralization	20 [1.7]	21 [1.7]	23 [1.5]	19 [1.7]
Parenchym Cell, Proliferation, Focal		1 [1.0]		
Pelvis, Dilatation		1 [3.0]		
Renal Tubule, Dilatation, Focal			1 [2.0]	

**** END OF REPORT ****

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