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

Experiment Number: 99930-96
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 (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/19/2014
Time Report Requested: 04:27:16
First Dose M/F: NA / NA
Lab: NCTR

CD Rat MALE	F3 0 PPM	F3/5PPM TO CTL	F3/100PPM TO CTL	F3/500PPM TO CTL
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)	(24)
Fibrosis	1 (4%)			
Hepatodiaphragmatic Nodule	1 (4%)			
Inflammation, Chronic	22 (88%)			23 (96%)
Necrosis	2 (8%)			1 (4%)
Vacuolization Cytoplasmic	3 (12%)			
CARDIOVASCULAR SYSTEM				
Blood Vessel	(0)	(0)	(0)	(1)
ENDOCRINE SYSTEM				
Adrenal Cortex	(25)	(0)	(0)	(25)
Accessory Adrenal Cortical Nodule	3 (12%)			1 (4%)
Adrenal Medulla	(25)	(0)	(0)	(25)
Pituitary Gland	(25)	(0)	(0)	(25)
Pars Distalis, Cyst	1 (4%)			
Pars Distalis, Cyst, Multiple	3 (12%)			1 (4%)
Thyroid Gland	(25)	(0)	(0)	(25)
Inflammation, Chronic	1 (4%)			
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				

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

CD Rat MALE	F3 0 PPM	F3/5PPM TO CTL	F3/100PPM TO CTL	F3/500PPM TO CTL
Coagulating Gland	(25)	(25)	(25)	(25)
Ductus Deferens	(0)	(1)	(0)	(0)
Ectasia		1 (100%)		
Epididymis	(25)	(25)	(25)	(25)
Degeneration	1 (4%)			
Hypospermia	1 (4%)	1 (4%)		
Infiltration Cellular, Lymphocyte	3 (12%)			1 (4%)
Prostate	(3)	(5)	(3)	(5)
Prostate, Dorsal Lobe	(25)	(25)	(25)	(25)
Epithelium, Hyperplasia	1 (4%)			
Inflammation, Chronic	8 (32%)	1 (4%)	6 (24%)	7 (28%)
Inflammation, Suppurative	5 (20%)	8 (32%)	10 (40%)	2 (8%)
Lymphatic, Ectasia		1 (4%)		
Prostate, Ventral Lobe	(25)	(25)	(25)	(25)
Inflammation, Chronic	18 (72%)	19 (76%)	17 (68%)	19 (76%)
Inflammation, Suppurative	3 (12%)	4 (16%)	5 (20%)	3 (12%)
Rete Testes	(24)	(25)	(25)	(24)
Dilatation	1 (4%)	2 (8%)		
Seminal Vesicle	(25)	(25)	(25)	(25)
Dilatation	3 (12%)			1 (4%)
Lymphatic, Ectasia		1 (4%)		
Testes	(25)	(24)	(25)	(25)
Seminif Tub, Degeneration	2 (8%)	1 (4%)	2 (8%)	3 (12%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(25)	(0)	(0)	(25)
Spleen	(25)	(0)	(0)	(25)
Adventitia, Inflammation, Chronic	1 (4%)			
Hyperplasia, Stromal				2 (8%)
Pigmentation	2 (8%)			4 (16%)
Thymus	(25)	(0)	(0)	(25)

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

CD Rat MALE	F3 0 PPM	F3/5PPM TO CTL	F3/100PPM TO CTL	F3/500PPM TO CTL
Epithel Cell, Hyperplasia	1 (4%)			
INTEGUMENTARY SYSTEM				
Mammary Gland	(24)	(25)	(25)	(23)
Alveolus, Hyperplasia	4 (17%)	2 (8%)	5 (20%)	4 (17%)
Duct, Hyperplasia			1 (4%)	4 (17%)
Skin	(24)	(0)	(0)	(25)
MUSCULOSKELETAL SYSTEM				
Bone, Femur	(25)	(0)	(0)	(25)
Bone, Vertebra	(0)	(1)	(0)	(0)
Malformation		1 (100%)		
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
None				
SPECIAL SENSES SYSTEM				
None				
URINARY SYSTEM				
Kidney	(25)	(1)	(0)	(25)
Capsule, Fat, Cyst		1 (100%)		1 (4%)
Casts Protein				1 (4%)
Inflammation, Chronic	21 (84%)			18 (72%)
Pelvis, Dilatation				1 (4%)
Renal Tubule, Dilatation	8 (32%)			4 (16%)
Renal Tubule, Regeneration	8 (32%)			13 (52%)

END OF MALE DATA

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

CD Rat FEMALE	F3 0 PPM	F3/5PPM TO CTL	F3/100PPM TO CTL	F3/500PPM TO CTL
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)	(24)
Developmental Malformation	1 (4%)			
Hepatodiaphragmatic Nodule		1 (50%)		
Inflammation, Chronic Active				1 (4%)
CARDIOVASCULAR SYSTEM				
None				
ENDOCRINE SYSTEM				
Adrenal Cortex	(25)	(1)	(0)	(25)
Hyperplasia, Focal	1 (4%)			
Adrenal Medulla	(25)	(1)	(0)	(25)
Pituitary Gland	(25)	(1)	(0)	(25)
Thyroid Gland	(25)	(1)	(0)	(25)
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Ovary	(25)	(25)	(25)	(25)
Diestrus	7 (28%)	2 (8%)	9 (36%)	6 (24%)
Estrus	9 (36%)	8 (32%)	3 (12%)	6 (24%)
Metestrus	3 (12%)	10 (40%)	4 (16%)	7 (28%)
Proestrus	6 (24%)	5 (20%)	9 (36%)	6 (24%)

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CD Rat FEMALE	F3 0 PPM	F3/5PPM TO CTL	F3/100PPM TO CTL	F3/500PPM TO CTL
Oviduct	(25)	(25)	(25)	(25)
Uterus	(25)	(25)	(25)	(25)
Decidual Reaction	23 (92%)	24 (96%)	22 (88%)	25 (100%)
Diestrus	7 (28%)	2 (8%)	9 (36%)	8 (32%)
Endometrium, Cyst				1 (4%)
Endometrium, Hyperplasia, Cystic	1 (4%)			
Estrus	10 (40%)	6 (24%)	3 (12%)	3 (12%)
Metestrus	3 (12%)	10 (40%)	4 (16%)	8 (32%)
Proestrus	5 (20%)	7 (28%)	9 (36%)	6 (24%)
Vagina	(24)	(25)	(25)	(25)
Diestrus	7 (29%)	2 (8%)	9 (36%)	7 (28%)
Estrus	7 (29%)	8 (32%)	7 (28%)	5 (20%)
Keratin Cyst				1 (4%)
Metestrus	4 (17%)	10 (40%)	4 (16%)	8 (32%)
Proestrus	6 (25%)	5 (20%)	5 (20%)	5 (20%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(25)	(1)	(0)	(25)
Spleen	(25)	(1)	(0)	(25)
Thymus	(25)	(1)	(0)	(25)
INTEGUMENTARY SYSTEM				
Mammary Gland	(25)	(25)	(25)	(25)
Alveolus, Hyperplasia	11 (44%)	12 (48%)	11 (44%)	12 (48%)
Lobules, Hyperplasia		4 (16%)		3 (12%)
Skin	(25)	(1)	(0)	(24)
MUSCULOSKELETAL SYSTEM				
Bone, Femur	(25)	(1)	(0)	(25)
NERVOUS SYSTEM				
None				

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CD Rat FEMALE	F3 0 PPM	F3/5PPM TO CTL	F3/100PPM TO CTL	F3/500PPM TO CTL
RESPIRATORY SYSTEM				
None				
SPECIAL SENSES SYSTEM				
None				
URINARY SYSTEM				
Kidney	(25)	(25)	(25)	(25)
Bilateral, Pelvis, Dilatation				1 (4%)
Cyst		2 (8%)		
Cyst, Multiple			1 (4%)	
Inflammation, Chronic Active				1 (4%)
Inflammation, Chronic Active, Focal				1 (4%)
Mineralization	21 (84%)	22 (88%)	22 (88%)	15 (60%)
Pelvis, Unilateral, Dilatation	1 (4%)			
Renal Tubule, Cyst	1 (4%)			1 (4%)
Renal Tubule, Regeneration		1 (4%)		

** END OF REPORT **

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