Route: DOSED FEED

Species/Strain: Rat/CD

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/19/2014 AVERAGE SEVERITY GRADES[b]

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Time Report Requested: 04:26:37

First Dose M/F: NA / NA

Lab: NCTR

C Number: MG96005

Lock Date: Not Entered.

Cage Range: ΑII

Date Range: ΑII

Reasons For Removal: ΑII

Removal Date Range: ΑII

Treatment Groups: ΑII

Study Gender: Both

PWG Approval Date NONE

Route: DOSED FEED

Species/Strain: Rat/CD

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] Date Report Requested: 10/19/2014 Time Report Requested: 04:26:37

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Time Report Requested: 04:26:37

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 [2.0]			
Hepatodiaphragmatic Nodule	1			
Inflammation, Chronic	22 [1.0]			23 [1.0]
Necrosis	2 [1.0]			1 [2.0]
Vacuolization Cytoplasmic	3 [1.0]	,		
CARDIOVASCULAR SYSTEM				
Blood Vessel	(0)	(0)	(0)	(1)
ENDOCRINE SYSTEM				
Adrenal Cortex	(25)	(0)	(0)	(25)
Accessory Adrenal Cortical Nodule	3			1
Adrenal Medulla	(25)	(0)	(0)	(25)
Pituitary Gland	(25)	(0)	(0)	(25)
Pars Distalis, Cyst	1			
Pars Distalis, Cyst, Multiple	3			1
Thyroid Gland	(25)	(0)	(0)	(25)
Inflammation, Chronic	1 [1.0]			

GENERAL BODY SYSTEM

None

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Experiment Number: 99930-96 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] Date Report Requested: 10/19/2014 Time Report Requested: 04:26:37

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Time Report Requested: 04:26:37

First Dose M/F: NA / NA

CD Rat MALE	F3 0 PPM	F3/5PPM TO CTL	F3/100PPM TO CTL	F3/500PPM TO CTL
GENITAL SYSTEM				
Coagulating Gland	(25)	(25)	(25)	(25)
Ductus Deferens	(0)	(1)	(0)	(0)
Ectasia		1 [4.0]		
Epididymis	(25)	(25)	(25)	(25)
Degeneration	1 [3.0]			
Hypospermia	1 [4.0]	1 [4.0]		
Infiltration Cellular, Lymphocyte	3 [1.0]			1 [1.0]
Prostate	(3)	(5)	(3)	(5)
Prostate, Dorsal Lobe	(25)	(25)	(25)	(25)
Epithelium, Hyperplasia	1 [1.0]			
Inflammation, Chronic	8 [1.1]	1 [1.0]	6 [1.5]	7 [1.0]
Inflammation, Suppurative	5 [1.6]	8 [1.1]	10 [1.6]	2 [1.0]
Lymphatic, Ectasia		1 [4.0]		
Prostate, Ventral Lobe	(25)	(25)	(25)	(25)
Inflammation, Chronic	18 [1.4]	19 [1.2]	17 [1.5]	19 [1.3]
Inflammation, Suppurative	3 [1.0]	4 [1.0]	5 [1.4]	3 [1.0]
Rete Testes	(24)	(25)	(25)	(24)
Dilatation	1 [4.0]	2 [3.0]		
Seminal Vesicle	(25)	(25)	(25)	(25)
Dilatation	3 [2.0]			1 [2.0]
Lymphatic, Ectasia		1 [4.0]		
Testes	(25)	(24)	(25)	(25)
Seminif Tub, Degeneration	2 [2.5]	1 [4.0]	2 [2.5]	3 [1.0]
HEMATOPOIETIC SYSTEM				
Bone Marrow	(25)	(0)	(0)	(25)
Spleen	(25)	(0)	(0)	(25)
Adventitia, Inflammation, Chronic	1 [2.0]			

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED FEED

Species/Strain: Rat/CD

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] Date Report Requested: 10/19/2014 Time Report Requested: 04:26:37

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Time Report Requested: 04:26:37

First Dose M/F: NA / NA

CD Rat MALE	F3 0 PPM	F3/5PPM TO CTL	F3/100PPM TO CTL	F3/500PPM TO CTL
Hyperplasia, Stromal				2 [1.0]
Pigmentation	2 [1.0]			4 [1.3]
Thymus	(25)	(0)	(0)	(25)
Epithel Cell, Hyperplasia	1 [2.0]			
INTEGUMENTARY SYSTEM				
Mammary Gland	(24)	(25)	(25)	(23)
Alveolus, Hyperplasia	4 [1.3]	2 [1.0]	5 [1.0]	4 [1.8]
Duct, Hyperplasia			1 [1.0]	4 [1.3]
Skin	(24)	(0)	(0)	(25)
MUSCULOSKELETAL SYSTEM				
Bone, Femur	(25)	(0)	(0)	(25)
Bone, Vertebra	(0)	(1)	(0)	(0)
Malformation		1		
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
None				
SPECIAL SENSES SYSTEM				
None				
URINARY SYSTEM				
Kidney	(25)	(1)	(0)	(25)
Capsule, Fat, Cyst	,	1	()	1
Casts Protein				1 [1.0]
Inflammation, Chronic	21 [1.1]			18 [1.0]
Pelvis, Dilatation				1 [2.0]
Renal Tubule, Dilatation	8 [1.9]			4 [1.5]
Renal Tubule, Regeneration	8 [1.1]			13 [1.0]

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED FEED Species/Strain: Rat/CD

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/19/2014 AVERAGE SEVERITY GRADES[b]

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Time Report Requested: 04:26:37

First Dose M/F: NA / NA

Lab: NCTR

CD Rat MALE 0 PPM F3 F3/5PPM TO CTL F3/100PPM TO CTL F3/500PPM TO CTL

END OF MALE DATA

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED FEED

Species/Strain: Rat/CD

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b] Date Report Requested: 10/19/2014 Time Report Requested: 04:26:37

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Time Report Requested: 04:26:37

First Dose M/F: NA / NA

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			
Hepatodiaphragmatic Nodule		1		
Inflammation, Chronic Active				1 [2.0]
CARDIOVASCULAR SYSTEM None ENDOCRINE SYSTEM				
Adrenal Cortex	(25)	(1)	(0)	(25)
Hyperplasia, Focal	1 [1.0]	` '	,	,
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	2	9	6
Estrus	9	8	3	6
Metestrus	3	10	4	7

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First Dose M/F: NA / NA

CD Rat FEMALE	F3 0 PPM	F3/5PPM TO CTL	F3/100PPM TO CTL	F3/500PPM TO CTL
Proestrus	6	5	9	6
Oviduct	(25)	(25)	(25)	(25)
Uterus	(25)	(25)	(25)	(25)
Decidual Reaction	23	24	22	25
Diestrus	7	2	9	8
Endometrium, Cyst				1
Endometrium, Hyperplasia, Cystic	1 [4.0]			
Estrus	10	6	3	3
Metestrus	3	10	4	8
Proestrus	5	7	9	6
Vagina	(24)	(25)	(25)	(25)
Diestrus	7	2	9	7
Estrus	7	8	7	5
Keratin Cyst				1
Metestrus	4	10	4	8
Proestrus	6	5	5	5
HEMATOPOIETIC SYSTEM				
Bone Marrow	(25)	(1)	(0)	(25)
Spleen	(25)	(1)	(0)	(25)
Thymus	(25)	(1)	(0)	(25)
NTEGUMENTARY SYSTEM				
Mammary Gland	(25)	(25)	(25)	(25)
Alveolus, Hyperplasia	11 [1.9]	12 [2.2]	11 [1.6]	12 [1.8]
Lobules, Hyperplasia		4 [2.0]		3 [3.0]
Skin	(25)	(1)	(0)	(24)
MUSCULOSKELETAL SYSTEM				
Bone, Femur	(25)	(1)	(0)	(25)

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Species/Strain: Rat/CD

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First Dose M/F: NA / NA

CD Rat FEMALE	F3 0 PP	M F3/5PPM TO CTL	F3/100PPM TO CTL	F3/500PPM TO CTL
NERVOUS SYSTEM None				
RESPIRATORY SYSTEM None				
SPECIAL SENSES SYSTEM None				
URINARY SYSTEM				
Kidney	(25)	(25)	(25)	(25)
Bilateral, Pelvis, Dilatation				1 [2.0]
Cyst		2		
Cyst, Multiple			1	
Inflammation, Chronic Active				1 [1.0]
Inflammation, Chronic Active, Focal				1 [1.0]
Mineralization	21 [2.0]	22 [1.6]	22 [2.2]	15 [1.2]
Pelvis, Unilateral, Dilatation	1 [2.0]			
Renal Tubule, Cyst	1			1
Renal Tubule, Regeneration		1 [1.0]		

^{**} END OF REPORT **

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)