Experiment Number: 99920-96 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] Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol) CAS Number: 57-63-6	Date Report Requested: 10/23/2014 Time Report Requested: 11:58:43 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	

Both

NONE

Study Gender:

PWG Approval Date

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/23/2014 AVERAGE SEVERITY GRADES[b] Time Report Requested: 11:58:43

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Time Report Requested: 11:58:43 First Dose M/F: NA / NA Lab: NCTR

CD Rat MALE	F3 CONTRO	F3/2PPB TO CTRL	F3/10PPB TO CTRL	F3/50PPB TO CTRL
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)	(1)	(25)
Hepatocyte, Vacuolization Cytoplasmic				1 [2.0]
Hepatodiaphragmatic Nodule			1	
Infiltration Cellular, Lymphocyte	4 [1.0]			3 [1.0]
Inflammation, Chronic Active	9 [1.0]			5 [1.0]
Mesentery	(0)	(0)	(0)	(1)
Fat, Necrosis				1 [4.0]
Inflammation, Granulomatous				1 [3.0]
CARDIOVASCULAR SYSTEM				
None				
ENDOCRINE SYSTEM				
Adrenal Cortex	(25)	(0)	(0)	(25)
Vacuolization Cytoplasmic	2 [2.0]			2 [1.5]
Adrenal Medulla	(24)	(0)	(0)	(25)
Pituitary Gland	(25)	(0)	(0)	(25)
Pars Distalis, Cyst	1			1
Thyroid Gland	(25)	(0)	(0)	(25)
Cyst, Squamous	4			4
Cyst, Squamous, Multiple				1
Infiltration Cellular, Lymphocyte	1 [1.0]			1 [1.0]

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

Experiment Number: 99920-96 Test Type: SPECIAL STUDY Route: DOSED FEED Species/Strain: Rat/CD	P18: INCIDENCE R Te	 Date Report Requested: 10/23/20 Time Report Requested: 11:58:43 First Dose M/F: NA / NA Lab: NCTR 			
CD Rat MALE	F3 CONTROL	F3/2PPB TO CTRL	F3/10PPB TO CTRL	F3/50PPB TO CTRL	
GENERAL BODY SYSTEM None					
GENITAL SYSTEM					
Coagulating Gland	(25)	(25)	(25)	(25)	
Bilateral, Developmental Malformation		1	1	1	
Developmental Malformation	2	7	5	8	
Epididymis	(25)	(25)	(25)	(25)	
Atrophy		3 [3.0]	1 [2.0]	1 [3.0]	
Hypospermia		3 [4.0]	1 [4.0]	1 [4.0]	
Infiltration Cellular, Lymphocyte	1 [1.0]	2 [1.0]	1 [1.0]		
Preputial Gland	(0)	(0)	(2)	(1)	
Duct, Dilatation			1 [3.0]	1 [3.0]	
Inflammation, Suppurative			1 [4.0]	1 [4.0]	
Prostate, Dorsal/Lateral Lobe	(9)	(12)	(8)	(9)	
Infiltration Cellular, Lymphocyte	2 [1.0]	3 [1.0]		1 [1.0]	
Inflammation, Suppurative	7 [1.1]	9 [1.1]	8 [1.8]	8 [1.9]	
Prostate, Dorsal/lateral Lobe	(16)	(13)	(17)	(16)	
Prostate, Ventral Lobe	(25)	(25)	(25)	(25)	
Infiltration Cellular, Lymphocyte	17 [1.3]	17 [1.3]	14 [1.2]	16 [1.9]	
Inflammation, Suppurative	1 [2.0]			1 [2.0]	
Rete Testes	(25)	(24)	(25)	(25)	
Dilatation		3 [2.0]		2 [2.0]	
Seminal Vesicle	(25)	(25)	(25)	(25)	
Depletion Secretory			1 [3.0]	1 [3.0]	
Testes	(25)	(25)	(25)	(25)	
Seminif Tub, Degeneration	2 [1.0]	5 [3.2]	2 [1.0]	1 [4.0]	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(25)	(0)	(0)	(25)	

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

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/23/2014 AVERAGE SEVERITY GRADES[b] Time Report Requested: 11/28/43

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Time Report Requested: 11:58:43 First Dose M/F: NA / NA Lab: NCTR

CD Rat MALE	F3 CONTROL	F3/2PPB TO CTRL	F3/10PPB TO CTRL	F3/50PPB TO CTRL
Myeloid Cell, Hyperplasia	1 [2.0]			2 [1.0]
Spleen	(25)	(0)	(0)	(25)
Hyperplasia, Lymphoid	1 [2.0]			2 [1.5]
Pigmentation	1 [1.0]			3 [1.0]
Thymus	(24)	(0)	(0)	(25)
Congestion	1 [2.0]		<u>.</u>	
INTEGUMENTARY SYSTEM				
Mammary Gland	(25)	(25)	(24)	(24)
Alveolus, Hyperplasia	2 [1.5]	5 [1.8]	4 [2.0]	7 [2.0]
Duct, Hyperplasia	1 [2.0]	1 [2.0]	3 [1.0]	1 [2.0]
MUSCULOSKELETAL SYSTEM				
Bone	(25)	(0)	(0)	(25)
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
None				
SPECIAL SENSES SYSTEM				
None				
URINARY SYSTEM				
Kidney	(25)	(0)	(2)	(25)
Bilateral, Pelvis, Dilatation	1 [3.0]			
Casts Protein				1 [2.0]
Congestion	2 [2.0]		2 [2.5]	
Hyaline Droplet	2 [1.0]			2 [1.5]
Infiltration Cellular, Lymphocyte	21 [1.0]			19 [1.1]
Interstitium, Fibrosis				2 [1.0]
Renal Tubule, Dilatation	3 [1.7]			6 [2.2]

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

Experiment Number: 99920-96 Test Type: SPECIAL STUDY Route: DOSED FEED Species/Strain: Rat/CD	P18:		AVERAGE SE st Compound: ENDOCF	ASTIC LESIONS BY A VERITY GRADES[b] RINE DISRUPTOR(Ethinyl Imber: 57-63-6	NATOMIC SITE (a) WITH	Date Report Requested: 10/23/2014 Time Report Requested: 11:58:43 First Dose M/F: NA / NA Lab: NCTR
CD Rat MALE	F3	CONTROL	F3/2PPB TO CTRL	F3/10PPB TO CTRL	F3/50PPB TO CTRL	
Renal Tubule, Regeneration		10 [1.0]	-	-	9 [1.2]	
			END OF M	ALE DATA		

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

Experiment Number: 99920-96 Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/23/2014 AVERAGE SEVERITY GRADES[b] Time Report Requested: 11:58:43

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Time Report Requested: 10/20/2017 First Dose M/F: NA / NA Lab: NCTR

CD Rat FEMALE	F3	CONTROL	F3/2PPB TO CTRL	F3/10PPB TO CTRL	F3/50PPB TO CTRL
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, Jejunum		(0)	(1)	(0)	(0)
Peyers Patch, Hyperplasia			1 [1.0]		
Liver		(25)	(0)	(0)	(25)
Developmental Malformation		1			
Inflammation, Chronic Active					2 [1.0]
CARDIOVASCULAR SYSTEM					
None					
ENDOCRINE SYSTEM					
Adrenal Cortex		(25)	(0)	(0)	(25)
Adrenal Medulla		(25)	(0)	(0)	(25)
Pituitary Gland		(25)	(0)	(0)	(25)
Cyst		2			
Thyroid Gland		(25)	(0)	(0)	(25)
Keratin Cyst					2
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Clitoral Gland		(0)	(3)	(0)	(0)
Distended			1		

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

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/23/2014 AVERAGE SEVERITY GRADES[b] Time Report Requested: 11/28/43

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Time Report Requested: 10/20/2017 First Dose M/F: NA / NA Lab: NCTR

CD Rat FEMALE	F3 CONT	ROL F3/2PPB TO CTRL	F3/10PPB TO CTRL	F3/50PPB TO CTRL
Inflammation, Chronic Active		3 [2.7]		
Ovary	(25)	(25)	(24)	(25)
Corpus Luteum, Cyst	1			
Cyst	2			
Diestrus	10	9	3	4
Estrus	5	4	5	6
Hyperplasia, Sertoliform			1 [1.0]	
Metestrus	6	5	7	4
Proestrus	4	7	9	11
Oviduct	(25)	(25)	(24)	(25)
Uterus	(25)	(25)	(25)	(25)
Diestrus	8	9	4	3
Estrus	5	4	5	6
Metestrus	8	5	6	5
Proestrus	4	7	10	11
Vagina	(25)	(25)	(25)	(25)
Diestrus	10	8	3	4
Estrus	4	4	7	5
Metestrus	8	6	7	5
Mucocyte, Hyperplasia		1 [1.0]		
Proestrus	3	7	8	11
HEMATOPOIETIC SYSTEM				
Bone Marrow	(25)	(0)	(0)	(25)
Pigmentation	1 [4.0]			
Spleen	(25)	(0)	(0)	(25)
Congestion	1 [3.0]			
Pigmentation	4 [1.3]			1 [2.0]
Thymus	(25)	(0)	(0)	(25)

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

Test Type: SPECIAL STUDY Route: DOSED FEED

Species/Strain: Rat/CD

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 10/23/2014 AVERAGE SEVERITY GRADES[b] Time Report Requested: 11:58:43

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Time Report Requested: 11:58:43 First Dose M/F: NA / NA Lab: NCTR

CD Rat FEMALE	F3 CONTROL	F3/2PPB TO CTRL	F3/10PPB TO CTRL	F3/50PPB TO CTRI
INTEGUMENTARY SYSTEM				
Mammary Gland	(25)	(25)	(25)	(25)
Alveolus, Hyperplasia	9 [1.7]	4 [1.8]	11 [1.6]	9 [1.3]
Lactation	2	1	1	
Lobules, Hyperplasia	7 [1.7]	4 [1.8]	6 [1.3]	8 [1.5]
Skin	(0)	(0)	(0)	(1)
Inflammation, Chronic, Focal				1 [2.0]
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	1	3	3
Hydronephrosis			1 [1.0]	
Infarct			2	
Nephropathy, Focal				1 [1.0]
Renal Tubule, Mineralization	19 [1.2]	19 [1.3]	18 [1.4]	14 [1.1]

** END OF REPORT **

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