Route: DOSED FEED Species/Strain: Rat/CD P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:52

First Dose M/F: NA / NA

Lab: NCTR

C Number: MG96006

Lock Date: 12/02/2008

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 11:54:52

First Dose M/F: NA / NA

CD Rat MALE	F3 OPPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTL
Disposition Summary				
Animals Initially In Study	50	49	50	50
Early Deaths				
Moribund Sacrifice	13	16	13	12
Natural Death	7	6	6	3
Survivors				
Terminal Sacrifice	30	27	31	35
Animals Examined Microscopically	50	49	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(48)	(50)	(50)
Dilatation			1 (2%)	
Hyperkeratosis	3 (6%)	4 (8%)		1 (2%)
Intestine Large, Cecum	(45)	(43)	(47)	(47)
Dilatation			1 (2%)	
Edema		1 (2%)		
Inflammation, Chronic Active				1 (2%)
Inflammation, Suppurative		1 (2%)		
Necrosis				1 (2%)
Polyarteritis				1 (2%)
Intestine Large, Colon	(45)	(43)	(48)	(48)
Intestine Large, Rectum	(45)	(44)	(48)	(48)
Infiltration Cellular, Lymphocyte		1 (2%)		
Inflammation, Chronic Active				1 (2%)
Necrosis				1 (2%)
Intestine Small, Duodenum	(44)	(43)	(47)	(47)
Intestine Small, Ileum	(44)	(38)	(47)	(47)
Inflammation, Chronic Active				1 (2%)
Necrosis				1 (2%)
Ulcer				1 (2%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:52

First Dose M/F: NA / NA

CD Rat MALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTL
Intestine Small, Jejunum	(44)	(41)	(45)	(46)
Lymphoid Tiss, Hyperplasia			1 (2%)	
Liver	(49)	(47)	(50)	(49)
Angiectasis	3 (6%)	1 (2%)	1 (2%)	5 (10%)
Basophilic Focus	9 (18%)	7 (15%)	5 (10%)	7 (14%)
Bile Duct, Hyperplasia	8 (16%)	9 (19%)	11 (22%)	5 (10%)
Biliar Tract, Cyst	1 (2%)		1 (2%)	1 (2%)
Biliar Tract, Fibrosis	7 (14%)	4 (9%)	7 (14%)	3 (6%)
Capsule, Inflammation, Chronic Active		1 (2%)		
Congestion			1 (2%)	
Cyst	1 (2%)	1 (2%)		
Cyst Multilocular	2 (4%)			1 (2%)
Cytomegaly			1 (2%)	
Degeneration, Cystic	10 (20%)	7 (15%)	6 (12%)	5 (10%)
Eosinophilic Focus	8 (16%)	5 (11%)	4 (8%)	5 (10%)
Hematopoietic Cell Proliferation	1 (2%)	1 (2%)	2 (4%)	3 (6%)
Hepatodiaphragmatic Nodule	8 (16%)	2 (4%)	4 (8%)	7 (14%)
Hyperplasia				1 (2%)
Hyperplasia, Regenerative	1 (2%)	1 (2%)		
Infiltration Cellular, Lymphocyte	2 (4%)	2 (4%)	4 (8%)	
Inflammation, Chronic Active	6 (12%)	7 (15%)	3 (6%)	4 (8%)
Inflammation, Suppurative				1 (2%)
Karyomegaly			1 (2%)	
Left Lat Lobe, Developmental Malformation	1 (2%)			
Mixed Cell Focus	1 (2%)			
Necrosis	2 (4%)	4 (9%)	2 (4%)	3 (6%)
Oval Cell, Hyperplasia			1 (2%)	1 (2%)
Pigmentation	1 (2%)			
Tension Lipidosis	3 (6%)	1 (2%)	2 (4%)	2 (4%)
Vacuolization Cytoplasmic	6 (12%)	7 (15%)	6 (12%)	3 (6%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:52

First Dose M/F: NA / NA

CD Rat MALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTL
Mesentery	(4)	(0)	(6)	(3)
Abscess			1 (17%)	
Fat, Necrosis	4 (100%)		4 (67%)	3 (100%)
Oral Mucosa	(3)	(8)	(4)	(6)
Gingival, Inflammation, Chronic Active		1 (13%)		
Inflammation, Suppurative	1 (33%)		1 (25%)	
Keratin Cyst		3 (38%)	3 (75%)	1 (17%)
Pancreas	(47)	(48)	(49)	(49)
Acinar Cell, Degeneration	42 (89%)	39 (81%)	36 (73%)	40 (82%)
Infiltration Cellular, Lymphocyte				1 (2%)
Polyarteritis	1 (2%)	1 (2%)		1 (2%)
Salivary Glands	(48)	(49)	(49)	(50)
Infiltration Cellular, Lymphocyte				1 (2%)
Stomach, Forestomach	(46)	(48)	(49)	(49)
Edema			2 (4%)	
Epithelium, Hyperplasia	1 (2%)	1 (2%)	2 (4%)	
Hyperkeratosis	2 (4%)	1 (2%)	1 (2%)	1 (2%)
Inflammation, Chronic Active			1 (2%)	
Stomach, Glandular	(45)	(46)	(47)	(47)
Infiltration Cellular, Lymphocyte				1 (2%)
CARDIOVASCULAR SYSTEM				
Blood Vessel	(50)	(49)	(50)	(50)
Heart	(50)	(49)	(50)	(50)
Atrium, Dilatation	2 (4%)	2 (4%)	1 (2%)	, ,
Cardiomyopathy	40 (80%)	37 (76%)	38 (76%)	42 (84%)
Endocardium, Hyperplasia		1 (2%)	1 (2%)	
Inflammation, Suppurative				1 (2%)
Metaplasia, Osseous		2 (4%)		
Polyarteritis		1 (2%)		
Ventricle, Dilatation	1 (2%)	1 (2%)	1 (2%)	1 (2%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:52

First Dose M/F: NA / NA

CD Rat MALE	F3 OPPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO C
ENDOCRINE SYSTEM				
Adrenal Cortex	(49)	(49)	(49)	(50)
Accessory Adrenal Cortical Nodule	1 (2%)		4 (8%)	1 (2%)
Angiectasis	3 (6%)	1 (2%)	1 (2%)	2 (4%)
Bilateral, Hyperplasia	1 (2%)			
Degeneration, Cystic	2 (4%)	4 (8%)	5 (10%)	1 (2%)
Hyperplasia	7 (14%)	7 (14%)	3 (6%)	4 (8%)
Hypertrophy	3 (6%)	5 (10%)	4 (8%)	4 (8%)
Vacuolization Cytoplasmic	7 (14%)	8 (16%)	9 (18%)	4 (8%)
Adrenal Medulla	(49)	(48)	(49)	(50)
Hyperplasia	15 (31%)	9 (19%)	8 (16%)	10 (20%)
Islets, Pancreatic	(48)	(48)	(50)	(50)
Degeneration				1 (2%)
Hyperplasia	7 (15%)	13 (27%)	8 (16%)	10 (20%)
Parathyroid Gland	(47)	(44)	(50)	(46)
Bilateral, Hyperplasia		1 (2%)	1 (2%)	
Cyst		1 (2%)		
Hyperplasia	4 (9%)	2 (5%)	7 (14%)	6 (13%)
Pituitary Gland	(49)	(48)	(49)	(50)
Inflammation, Suppurative		1 (2%)		
Necrosis		1 (2%)		
Pars Distalis, Cyst	3 (6%)	5 (10%)	6 (12%)	6 (12%)
Pars Distalis, Hyperplasia	8 (16%)	18 (38%)	15 (31%)	13 (26%)
Pars Intermed, Cyst		3 (6%)	2 (4%)	2 (4%)
Thyroid Gland	(48)	(49)	(50)	(50)
C Cell, Hyperplasia	4 (8%)	6 (12%)	4 (8%)	3 (6%)
Cyst, Squamous	12 (25%)	12 (24%)	13 (26%)	9 (18%)
Follicle, Cyst			1 (2%)	
Follicular Cel, Hyperplasia			1 (2%)	
Inflammation, Chronic Active		1 (2%)		

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

Experiment Number: 99920-93
Test Type: SPECIAL STUDY
Route: DOSED FEED

Abscess

Atrophy

Duct, Dilatation

Keratin Cyst

Atrophy

Infiltration Cellular, Lymphocyte

Inflammation, Chronic Active

Inflammation, Suppurative

Prostate. Dorsal/Lateral Lobe

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 **Time Report Requested:** 11:54:52

First Dose M/F: NA / NA Lab: NCTR

Species/Strain: Rat/CD 0PPB **CD Rat MALE** F3 F3/2PPB TO CTL F3/10PPBTO CTL F3/50PPBTO CTL **GENERAL BODY SYSTEM** Tissue NOS (0)(0) (0)(1) **GENITAL SYSTEM** Coagulating Gland (47)(49)(48)(50)1 (2%) 1 (2%) 1 (2%) 2 (4%) Atrophy **Developmental Malformation** 6 (13%) 5 (10%) 6 (13%) 9 (18%) Inflammation, Chronic Active 1 (2%) Inflammation, Suppurative 1 (2%) Lumen, Dilatation 2 (4%) 1 (2%) **Ductus Deferens** (0)(0) (0)(1) Dilatation 1 (100%) Inflammation, Chronic Active 1 (100%) **Epididymis** (49)(49)(50)(50)Atrophy 4 (8%) 7 (14%) 7 (14%) 5 (10%) Granuloma Sperm 1 (2%) Hypospermia 4 (8%) 9 (18%) 8 (16%) 7 (14%) Infiltration Cellular, Lymphocyte 2 (4%) Polyarteritis 1 (2%) Penis (0)(0)(1) (0)Preputial Gland (49)(49)(50)(49)

1 (2%)

12 (24%)

10 (20%)

1 (2%)

21 (43%)

(43)

2 (4%)

3 (6%)

11 (22%)

9 (18%)

1 (2%)

24 (48%)

(41)

2 (4%)

2 (4%)

12 (24%)

7 (14%)

2 (4%)

22 (45%)

2 (4%)

(43)

2 (5%)

1 (2%)

4 (8%)

8 (16%)

8 (16%)

4 (8%)

19 (39%)

(38)

1 (3%)

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

First Dose M/F: NA / NA Lab: NCTR

Date Report Requested: 10/23/2014

Time Report Requested: 11:54:52

Route: DOSED FEED
Species/Strain: Rat/CD

CD Rat MALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CT
Cyst	1 (2%)		2 (5%)	
Dilatation				1 (2%)
Hemorrhage				1 (2%)
Infiltration Cellular, Lymphocyte		2 (5%)		
Inflammation, Chronic Active	11 (26%)	5 (13%)	7 (17%)	5 (12%)
Inflammation, Suppurative	32 (74%)	30 (79%)	34 (83%)	36 (84%)
Prostate, Dorsal/lateral Lobe	(7)	(10)	(9)	(7)
Prostate, Ventral Lobe	(49)	(48)	(50)	(50)
Atrophy		1 (2%)		2 (4%)
Dilatation				1 (2%)
Hemorrhage				1 (2%)
Hyperplasia	4 (8%)	3 (6%)	2 (4%)	3 (6%)
Infiltration Cellular, Lymphocyte	1 (2%)	4 (8%)	2 (4%)	3 (6%)
Inflammation, Chronic Active	5 (10%)	7 (15%)	4 (8%)	5 (10%)
Inflammation, Suppurative	3 (6%)	1 (2%)	4 (8%)	2 (4%)
Rete Testes	(46)	(45)	(43)	(44)
Dilatation	4 (9%)	3 (7%)	4 (9%)	2 (5%)
Fibrosis	1 (2%)	2 (4%)	1 (2%)	
Seminal Vesicle	(44)	(44)	(47)	(47)
Atrophy	7 (16%)	5 (11%)	4 (9%)	10 (21%)
Inflammation, Chronic Active	1 (2%)			
Inflammation, Suppurative				1 (2%)
Lumen, Dilatation	2 (5%)	4 (9%)	3 (6%)	6 (13%)
Testes	(50)	(49)	(50)	(50)
Polyarteritis			1 (2%)	1 (2%)
Seminif Tub, Degeneration	19 (38%)	20 (41%)	17 (34%)	19 (38%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(49)	(49)	(50)	(50)
Erythroid Cell, Hyperplasia				2 (4%)
Hypocellularity		1 (2%)		2 (4%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:52

First Dose M/F: NA / NA

CD Rat MALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTL
Myeloid Cell, Hyperplasia	3 (6%)	6 (12%)	12 (24%)	7 (14%)
Sinusoid, Dilatation			1 (2%)	
Lymph Node	(14)	(16)	(13)	(16)
Axillary, Degeneration, Cystic				1 (6%)
Axillary, Hyperplasia, Lymphoid				1 (6%)
Axillary, Infiltration Cellular, Plasma Cell				1 (6%)
Hemal, Degeneration, Cystic				1 (6%)
Inguinal, Degeneration, Cystic		1 (6%)		
Inguinal, Infiltration Cellular, Plasma Cell		1 (6%)		
Lumbar, Degeneration, Cystic	10 (71%)	8 (50%)	7 (54%)	10 (63%)
Lumbar, Hyperplasia, Lymphoid	4 (29%)	4 (25%)	2 (15%)	3 (19%)
Lumbar, Infiltration Cellular, Plasma Cell	4 (29%)	8 (50%)	5 (38%)	5 (31%)
Mediastinal, Degeneration, Cystic			1 (8%)	
Pancreatic, Hyperplasia, Lymphoid				1 (6%)
Pancreatic, Inflammation, Granulomatous				1 (6%)
Pancreatic, Necrosis				1 (6%)
Popliteal, Hyperplasia, Lymphoid		2 (13%)	2 (15%)	2 (13%)
Popliteal, Infiltration Cellular, Plasma Cell		2 (13%)	2 (15%)	2 (13%)
Renal, Degeneration, Cystic	2 (14%)	6 (38%)	3 (23%)	2 (13%)
Renal, Hyperplasia, Lymphoid		1 (6%)		
Renal, Infiltration Cellular, Plasma Cell	1 (7%)	3 (19%)		
Lymph Node, Mandibular	(46)	(48)	(50)	(49)
Degeneration, Cystic	10 (22%)	11 (23%)	11 (22%)	7 (14%)
Hyperplasia, Lymphoid	24 (52%)	27 (56%)	29 (58%)	28 (57%)
Infiltration Cellular, Plasma Cell	28 (61%)	26 (54%)	30 (60%)	28 (57%)
Necrosis				1 (2%)
Lymph Node, Mesenteric	(44)	(46)	(49)	(48)
Hyperplasia, Lymphoid	2 (5%)	1 (2%)	1 (2%)	1 (2%)
Infiltration Cellular, Mast Cell	1 (2%)	1 (2%)		1 (2%)
Inflammation, Granulomatous	11 (25%)	6 (13%)	10 (20%)	8 (17%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:53

First Dose M/F: NA / NA

CD Rat MALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTL
Pigmentation				1 (2%)
Spleen	(49)	(48)	(49)	(50)
Depletion Lymphoid	1 (2%)		1 (2%)	1 (2%)
Hematopoietic Cell Proliferation	13 (27%)	13 (27%)	8 (16%)	15 (30%)
Hyperplasia, Lymphoid	2 (4%)	3 (6%)	4 (8%)	2 (4%)
Hyperplasia, Stromal			2 (4%)	
Infiltration Cellular, Plasma Cell				1 (2%)
Infiltration Cellular, Polymorphnuclr		1 (2%)	1 (2%)	3 (6%)
Inflammation, Suppurative		1 (2%)		
Necrosis		1 (2%)		2 (4%)
Pigmentation	30 (61%)	28 (58%)	29 (59%)	27 (54%)
Polyarteritis	1 (2%)	1 (2%)		
Thymus	(47)	(45)	(47)	(45)
Atrophy	45 (96%)	41 (91%)	45 (96%)	43 (96%)
Cyst		2 (4%)	1 (2%)	
Epithel Cell, Hyperplasia	8 (17%)	7 (16%)	1 (2%)	4 (9%)
Polyarteritis		1 (2%)		
NTEGUMENTARY SYSTEM				
Mammary Gland	(42)	(42)	(40)	(45)
Acinus, Degeneration	25 (60%)	21 (50%)	17 (43%)	26 (58%)
Alveolus, Hyperplasia	2 (5%)	6 (14%)	4 (10%)	9 (20%)
Atypical Focus		1 (2%)	1 (3%)	
Cyst		1 (2%)		
Duct, Hyperplasia				1 (2%)
Ectasia	3 (7%)	4 (10%)	6 (15%)	4 (9%)
Fibrosis			1 (3%)	
Galactocele		2 (5%)		2 (4%)
Lactation	7 (17%)	6 (14%)	7 (18%)	8 (18%)
Polyarteritis		1 (2%)		
Skin	(50)	(49)	(50)	(50)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:53

First Dose M/F: NA / NA

CD Rat MALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTI
Abscess	1 (2%)	1 (2%)		
Cyst Epithelial Inclusion	4 (8%)	4 (8%)	2 (4%)	2 (4%)
Fibrosis	1 (2%)	1 (2%)		
Hyperkeratosis	1 (2%)			
Inflammation, Chronic	1 (2%)			
Inflammation, Chronic Active	20 (40%)	17 (35%)	10 (20%)	13 (26%)
Keratin Cyst				1 (2%)
MUSCULOSKELETAL SYSTEM				
Bone	(0)	(1)	(1)	(0)
Bone, Femur	(49)	(49)	(50)	(50)
Skeletal Muscle	(3)	(4)	(3)	(0)
Degeneration	1 (33%)	2 (50%)	1 (33%)	
NERVOUS SYSTEM				
Brain	(0)	(0)	(0)	(1)
Brain, Brain Stem	(49)	(49)	(50)	(50)
Compression	7 (14%)	9 (18%)	9 (18%)	2 (4%)
Hemorrhage	1 (2%)			
Meninges, Inflammation, Suppurative		1 (2%)		
Brain, Cerebellum	(49)	(49)	(50)	(50)
Brain, Cerebrum	(49)	(49)	(50)	(50)
Gliosis			1 (2%)	1 (2%)
Hydrocephalus	1 (2%)	2 (4%)	1 (2%)	3 (6%)
Peripheral Nerve	(2)	(4)	(2)	(0)
RESPIRATORY SYSTEM				
Lung	(47)	(48)	(48)	(50)
Alveolar Epith, Hyperplasia	3 (6%)	8 (17%)	3 (6%)	4 (8%)
Infiltration Cellular, Histiocyte	19 (40%)	19 (40%)	14 (29%)	14 (28%)
Infiltration Cellular, Lymphocyte			1 (2%)	1 (2%)
Inflammation, Chronic Active		2 (4%)	·	1 (2%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:53

First Dose M/F: NA / NA

CD Rat MALE	F3 OPPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO C1
Metaplasia, Osseous	1 (2%)	1 (2%)	1 (2%)	
Polyarteritis			1 (2%)	
Nose	(49)	(48)	(49)	(50)
Infiltration Cellular, Lymphocyte				1 (2%)
Inflammation, Chronic Active	2 (4%)	2 (4%)	1 (2%)	1 (2%)
Inflammation, Suppurative	2 (4%)	6 (13%)	8 (16%)	3 (6%)
Mucosa, Keratin Cyst	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Vomeronas Org, Dilatation		2 (4%)		
Trachea	(49)	(49)	(50)	(50)
PECIAL SENSES SYSTEM				
Ear	(0)	(0)	(1)	(1)
Eye	(46)	(47)	(48)	(50)
Bilateral, Cataract				3 (6%)
Cataract		1 (2%)		
Cornea, Hemorrhage		1 (2%)		
Inflammation, Chronic Active	1 (2%)	2 (4%)	1 (2%)	
Inflammation, Suppurative	1 (2%)	1 (2%)		
Retina, Degeneration				1 (2%)
Harderian Gland	(49)	(48)	(50)	(50)
Acinus, Degeneration	3 (6%)	3 (6%)	3 (6%)	
Infiltration Cellular, Lymphocyte	2 (4%)	1 (2%)	1 (2%)	4 (8%)
Inflammation, Suppurative	1 (2%)	1 (2%)		1 (2%)
Lacrimal Gland	(1)	(1)	(2)	(1)
Ectopic Harderian	1 (100%)	1 (100%)	2 (100%)	1 (100%)
Zymbal's Gland	(1)	(0)	(2)	(0)
Inflammation, Suppurative			1 (50%)	
RINARY SYSTEM				
Kidney	(49)	(48)	(50)	(50)
Cyst	18 (37%)	19 (40%)	18 (36%)	27 (54%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:53

First Dose M/F: NA / NA

CD Rat MALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTL
Hemorrhage				1 (2%)
Hydronephrosis	2 (4%)	3 (6%)	3 (6%)	3 (6%)
Infiltration Cellular, Lymphocyte				1 (2%)
Inflammation, Suppurative				1 (2%)
Nephropathy	46 (94%)	44 (92%)	44 (88%)	48 (96%)
Pelvis, Inflammation, Suppurative			1 (2%)	
Polyarteritis	1 (2%)	1 (2%)		
Polycystic Kidney				1 (2%)
Renal Tubule, Hyperplasia			1 (2%)	
Transit Epithe, Hyperplasia		1 (2%)	4 (8%)	1 (2%)
Urethra	(3)	(1)	(1)	(0)
Urinary Bladder	(49)	(48)	(49)	(50)
Dilatation				1 (2%)
Hemorrhage			1 (2%)	, ,
Inflammation, Chronic Active	1 (2%)		. ,	
Inflammation, Suppurative	` ,		1 (2%)	

^{***}END OF MALE DATA***

Experiment Number: 99920-93

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

CAS Number: 57-63-6

Time

Test Type: SPECIAL STUDY Route: DOSED FEED

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Time Report Requested: 11:54:53
First Dose M/F: NA / NA

Date Report Requested: 10/23/2014

Species/Strain: Rat/CD

CD Rat FEMALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTL
Disposition Summary				
Animals Initially In Study	52	50	50	50
Early Deaths				
Moribund Sacrifice	24	19	23	21
Natural Death	1	2	5	3
Survivors				
Moribund Sacrifice			1	2
Terminal Sacrifice	27	29	21	24
Animals Examined Microscopically	52	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(52)	(49)	(50)	(50)
Inflammation				1 (2%)
Intestine Large, Cecum	(51)	(49)	(49)	(50)
Dilatation			1 (2%)	
Inflammation, Chronic			1 (2%)	
Intestine Large, Colon	(52)	(50)	(50)	(50)
Dilatation			1 (2%)	
Intestine Large, Rectum	(51)	(49)	(50)	(50)
Inflammation, Chronic			1 (2%)	
Intestine Small, Duodenum	(52)	(49)	(50)	(50)
Intestine Small, Ileum	(52)	(49)	(49)	(50)
Lymphoid Tiss, Inflammation, Chronic Active			1 (2%)	
Intestine Small, Jejunum	(51)	(49)	(48)	(50)
Inflammation, Chronic			1 (2%)	
Liver	(52)	(50)	(50)	(50)
Angiectasis	8 (15%)	5 (10%)	2 (4%)	5 (10%)
Basophilic Focus	1 (2%)	3 (6%)		2 (4%)
Bile Duct, Hyperplasia	12 (23%)	16 (32%)	14 (28%)	6 (12%)
Centrilobular, Necrosis		1 (2%)		

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

Experiment Number: 99920-93

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(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:53

First Dose M/F: NA / NA

CD Rat FEMALE	F3 OPPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTL
Cyst		1 (2%)		
Cyst Multilocular	2 (4%)		1 (2%)	1 (2%)
Degeneration, Cystic		3 (6%)	1 (2%)	1 (2%)
Eosinophilic Focus	2 (4%)	3 (6%)	2 (4%)	2 (4%)
Hematopoietic Cell Proliferation	1 (2%)	3 (6%)	2 (4%)	4 (8%)
Hepatocyte, Periportal, Hypertrophy				1 (2%)
Hepatodiaphragmatic Nodule	4 (8%)	4 (8%)	1 (2%)	1 (2%)
Infiltration Cellular, Lymphocyte	2 (4%)		1 (2%)	
Inflammation, Chronic Active	10 (19%)	5 (10%)	5 (10%)	4 (8%)
Left Lat Lobe, Developmental Malformation		1 (2%)		2 (4%)
Median Lobe, Developmental Malformation		1 (2%)		
Necrosis	1 (2%)	3 (6%)		5 (10%)
Periportal, Inflammation, Chronic	3 (6%)	3 (6%)	6 (12%)	5 (10%)
Tension Lipidosis	2 (4%)	3 (6%)	1 (2%)	
Vacuolization Cytoplasmic	16 (31%)	11 (22%)	10 (20%)	12 (24%)
Mesentery	(3)	(3)	(4)	(4)
Fat, Necrosis	1 (33%)	2 (67%)	3 (75%)	3 (75%)
Oral Mucosa	(2)	(4)	(7)	(2)
Abscess			1 (14%)	
Gingival, Inflammation		1 (25%)	1 (14%)	
Keratin Cyst		2 (50%)	1 (14%)	1 (50%)
Pancreas	(52)	(49)	(50)	(50)
Accessory Spleen				1 (2%)
Acinar Cell, Degeneration	23 (44%)	33 (67%)	21 (42%)	21 (42%)
Inflammation, Chronic	1 (2%)	4 (8%)	2 (4%)	1 (2%)
Lipomatosis		1 (2%)	1 (2%)	
Salivary Glands	(52)	(50)	(50)	(50)
Infiltration Cellular, Lymphocyte				1 (2%)
Inflammation, Chronic			1 (2%)	
Parotid GI, Degeneration	1 (2%)			

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 11:54:53

First Dose M/F: NA / NA

CD Rat FEMALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTL
Stomach, Forestomach	(52)	(49)	(50)	(50)
Edema	2 (4%)		2 (4%)	
Hyperplasia	2 (4%)		1 (2%)	1 (2%)
Inflammation	3 (6%)		2 (4%)	
Keratin Cyst	1 (2%)		1 (2%)	
Ulcer				2 (4%)
Stomach, Glandular	(52)	(49)	(50)	(50)
Edema				1 (2%)
Infiltration Cellular, Lymphocyte			1 (2%)	
Tongue	(0)	(1)	(0)	(0)
CARDIOVASCULAR SYSTEM				
Blood Vessel	(52)	(50)	(50)	(50)
Heart	(52)	(50)	(50)	(50)
Cardiomyopathy	33 (63%)	28 (56%)	24 (48%)	21 (42%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(52)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule				1 (2%)
Angiectasis		1 (2%)	3 (6%)	2 (4%)
Atrophy	1 (2%)		1 (2%)	
Degeneration, Cystic	48 (92%)	42 (84%)	38 (76%)	41 (82%)
Hematopoietic Cell Proliferation				2 (4%)
Hypertrophy	3 (6%)	9 (18%)	4 (8%)	7 (14%)
Infarct		1 (2%)		1 (2%)
Adrenal Medulla	(52)	(50)	(50)	(50)
Atrophy		1 (2%)		
Islets, Pancreatic	(52)	(49)	(50)	(50)
Hyperplasia		1 (2%)		1 (2%)
Parathyroid Gland	(48)	(45)	(47)	(44)
Hyperplasia		1 (2%)		1 (2%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 11:54:53

First Dose M/F: NA / NA

CD Rat FEMALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CT
Inflammation			1 (2%)	
Thrombosis		1 (2%)		
Pituitary Gland	(52)	(50)	(50)	(50)
Angiectasis	2 (4%)	2 (4%)		1 (2%)
Degeneration, Cystic	1 (2%)			
Hypertrophy, Focal	1 (2%)			
Necrosis	1 (2%)			
Pars Distalis, Cyst	2 (4%)	1 (2%)		1 (2%)
Pars Distalis, Hyperplasia	6 (12%)	3 (6%)	4 (8%)	5 (10%)
Pars Intermed, Cyst		1 (2%)		
Thyroid Gland	(52)	(49)	(50)	(50)
C Cell, Hyperplasia	3 (6%)	3 (6%)	3 (6%)	1 (2%)
Cyst			1 (2%)	
Follicular Cel, Hyperplasia				1 (2%)
Infiltration Cellular, Lymphocyte	1 (2%)			1 (2%)
Inflammation, Chronic			1 (2%)	
Ultimobranchial Cyst	2 (4%)	5 (10%)	3 (6%)	2 (4%)
GENERAL BODY SYSTEM				
Tissue NOS	(0)	(0)	(1)	(1)
GENITAL SYSTEM				
Clitoral Gland	(50)	(50)	(49)	(48)
Atrophy	6 (12%)	5 (10%)	6 (12%)	6 (13%)
Duct, Dilatation	9 (18%)	13 (26%)	7 (14%)	9 (19%)
Duct, Hyperplasia, Squamous	, ,	1 (2%)	1 (2%)	, ,
Duct, Inflammation			1 (2%)	
Hyperplasia			1 (2%)	3 (6%)
Infiltration Cellular, Mast Cell		1 (2%)	, ,	,
Inflammation	26 (52%)	26 (52%)	24 (49%)	20 (42%)
Inflammation, Suppurative	1 (2%)	, ,	• •	,

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:53

First Dose M/F: NA / NA

CD Rat FEMALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTL
Keratin Cyst		1 (2%)	1 (2%)	1 (2%)
Ovary	(51)	(50)	(50)	(50)
Atrophy	47 (92%)	46 (92%)	45 (90%)	49 (98%)
Corpus Luteum, Cyst	1 (2%)	2 (4%)	2 (4%)	
Cyst	13 (25%)	12 (24%)	15 (30%)	13 (26%)
Hyperplasia, Sertoliform	22 (43%)	20 (40%)	26 (52%)	27 (54%)
Interstit Cell, Hyperplasia	4 (8%)	3 (6%)		
Rete Ovarii, Cyst	2 (4%)		2 (4%)	
Oviduct	(51)	(49)	(50)	(50)
Uterus	(52)	(50)	(50)	(50)
Adenomyosis	1 (2%)	1 (2%)	1 (2%)	
Atrophy		1 (2%)	2 (4%)	2 (4%)
Dilatation	1 (2%)	1 (2%)		1 (2%)
Endometrium, Degeneration				1 (2%)
Endometrium, Hyperplasia	6 (12%)	6 (12%)	8 (16%)	5 (10%)
Endometrium, Hyperplasia, Cystic	15 (29%)	9 (18%)	9 (18%)	18 (36%)
Hyperplasia, Atypical, Focal	6 (12%)	16 (32%)	15 (30%)	21 (42%)
Inflammation	2 (4%)		2 (4%)	1 (2%)
Metaplasia, Squamous	1 (2%)	4 (8%)	3 (6%)	11 (22%)
Pigmentation, Focal				1 (2%)
Vagina	(51)	(50)	(50)	(50)
Epithelium, Atrophy			1 (2%)	2 (4%)
Hemorrhage		1 (2%)		
Inflammation	14 (27%)	16 (32%)	20 (40%)	12 (24%)
Mucocyte, Hyperplasia	39 (76%)	39 (78%)	36 (72%)	35 (70%)
EMATOPOIETIC SYSTEM				
Bone Marrow	(52)	(50)	(50)	(50)
Hyperplasia	1 (2%)			2 (4%)
Myeloid Cell, Hyperplasia			1 (2%)	
Lymph Node	(10)	(17)	(10)	(5)

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

Route: DOSED FEED
Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:53

First Dose M/F: NA / NA

CD Rat FEMALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTI
Axillary, Hyperplasia, Lymphoid	1 (10%)			
Axillary, Infiltration Cellular, Plasma Cell	2 (20%)	1 (6%)		
Lumbar, Degeneration, Cystic	8 (80%)	14 (82%)	7 (70%)	4 (80%)
Lumbar, Hemorrhage		1 (6%)		1 (20%)
Lumbar, Hyperplasia, Lymphoid	6 (60%)	11 (65%)	6 (60%)	3 (60%)
Lumbar, Infiltration Cellular, Plasma Cell	9 (90%)	15 (88%)	6 (60%)	5 (100%)
Mediastinal, Hemorrhage			1 (10%)	
Popliteal, Degeneration, Cystic	1 (10%)	3 (18%)	1 (10%)	
Popliteal, Hyperplasia, Lymphoid	1 (10%)	5 (29%)	1 (10%)	1 (20%)
Popliteal, Infiltration Cellular, Plasma Cell	2 (20%)	7 (41%)	1 (10%)	1 (20%)
Renal, Degeneration, Cystic	1 (10%)	2 (12%)		
Renal, Hemorrhage			1 (10%)	
Renal, Hyperplasia, Lymphoid	1 (10%)	1 (6%)		
Renal, Infiltration Cellular, Plasma Cell	1 (10%)	2 (12%)	1 (10%)	
Lymph Node, Mandibular	(51)	(50)	(50)	(50)
Degeneration, Cystic	6 (12%)	9 (18%)	8 (16%)	7 (14%)
Hemorrhage			1 (2%)	
Hyperplasia, Lymphoid	12 (24%)	9 (18%)	9 (18%)	8 (16%)
Infiltration Cellular, Plasma Cell	42 (82%)	38 (76%)	40 (80%)	37 (74%)
Lymph Node, Mesenteric	(51)	(49)	(50)	(49)
Degeneration, Cystic	1 (2%)		1 (2%)	1 (2%)
Hyperplasia, Lymphoid	5 (10%)	2 (4%)	5 (10%)	1 (2%)
Infiltration Cellular, Plasma Cell	2 (4%)		3 (6%)	2 (4%)
Inflammation, Chronic	1 (2%)			
Pigmentation			1 (2%)	
Spleen	(52)	(50)	(50)	(50)
Hematopoietic Cell Proliferation	14 (27%)	15 (30%)	12 (24%)	16 (32%)
Hyperplasia, Histiocytic, Focal			1 (2%)	•
Hyperplasia, Lymphoid		2 (4%)	•	
Pigmentation	27 (52%)	26 (52%)	24 (48%)	29 (58%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:53

First Dose M/F: NA / NA

CD Rat FEMALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CT
Thymus	(50)	(45)	(46)	(49)
Atrophy				1 (2%)
Cyst	16 (32%)	19 (42%)	17 (37%)	20 (41%)
NTEGUMENTARY SYSTEM				
Mammary Gland	(52)	(50)	(50)	(50)
Alveolus, Hyperplasia	35 (67%)	36 (72%)	40 (80%)	39 (78%)
Atypical Focus	12 (23%)	21 (42%)	22 (44%)	18 (36%)
Duct, Dilatation			3 (6%)	3 (6%)
Galactocele	2 (4%)	1 (2%)	1 (2%)	5 (10%)
Inflammation			1 (2%)	
Lactation	19 (37%)	6 (12%)	17 (34%)	20 (40%)
Skin	(52)	(50)	(50)	(50)
Abscess	1 (2%)	1 (2%)		
Cyst Epithelial Inclusion	1 (2%)			1 (2%)
Epidermis, Necrosis			1 (2%)	
Inflammation	15 (29%)	21 (42%)	8 (16%)	12 (24%)
MUSCULOSKELETAL SYSTEM				
Bone	(0)	(1)	(0)	(0)
Cartilage, Sternum, Degeneration		1 (100%)		
Bone, Femur	(52)	(50)	(50)	(50)
Hyperplasia			1 (2%)	
Osteopetrosis				1 (2%)
Skeletal Muscle	(3)	(4)	(0)	(1)
Head, Hyalinization, Focal		1 (25%)		
Inflammation, Chronic Active	1 (33%)			
NERVOUS SYSTEM				
Brain, Brain Stem	(52)	(50)	(50)	(50)
Compression	13 (25%)	11 (22%)	19 (38%)	20 (40%)
Hemorrhage		1 (2%)	1 (2%)	1 (2%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:53

First Dose M/F: NA / NA

CD Rat FEMALE	F3 0PPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CT
Brain, Cerebellum	(51)	(50)	(50)	(50)
Hydrocephalus	1 (2%)		4 (8%)	3 (6%)
Brain, Cerebrum	(52)	(50)	(50)	(50)
Hydrocephalus	1 (2%)		1 (2%)	3 (6%)
Peripheral Nerve	(0)	(1)	(0)	(1)
Spinal Cord	(0)	(1)	(0)	(1)
Necrosis				1 (100%)
RESPIRATORY SYSTEM				
Lung	(52)	(50)	(50)	(50)
Alveolar Epith, Hyperplasia	1 (2%)	4 (8%)	1 (2%)	1 (2%)
Artery, Mineralization	1 (2%)			
Edema			3 (6%)	
Hemorrhage	2 (4%)			1 (2%)
Infiltration Cellular, Histiocyte	10 (19%)	14 (28%)	11 (22%)	7 (14%)
Infiltration Cellular, Lymphocyte			1 (2%)	
Inflammation	1 (2%)	4 (8%)	1 (2%)	2 (4%)
Mineralization		1 (2%)		
Peribronchial, Inflammation, Chronic			1 (2%)	
Perivascular, Inflammation			1 (2%)	
Nose	(52)	(50)	(50)	(50)
Goblet Cell, Hyperplasia	3 (6%)	3 (6%)	1 (2%)	3 (6%)
Inflammation	8 (15%)	2 (4%)	3 (6%)	6 (12%)
Nasolacrim Dct, Inflammation	26 (50%)	34 (68%)	26 (52%)	26 (52%)
Nasolacrim Dct, Keratin Cyst				1 (2%)
Olfactory Epi, Hyaline Droplet	15 (29%)	8 (16%)	5 (10%)	9 (18%)
Osteopetrosis				1 (2%)
Respirat Epith, Hyperplasia	1 (2%)	1 (2%)		1 (2%)
Trachea	(52)	(49)	(50)	(50)
Inflammation	2 (4%)	2 (4%)	2 (4%)	3 (6%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014 Time Report Requested: 11:54:54

First Dose M/F: NA / NA

CD Rat FEMALE	F3 OPPB	F3/2PPB TO CTL	F3/10PPBTO CTL	F3/50PPBTO CTL
SPECIAL SENSES SYSTEM				
Ear	(0)	(0)	(2)	(0)
Eye	(52)	(50)	(49)	(50)
Bilateral, Cataract		1 (2%)		
Bilateral, Retina, Degeneration	3 (6%)	2 (4%)	3 (6%)	2 (4%)
Cataract		1 (2%)	2 (4%)	1 (2%)
Inflammation	1 (2%)		1 (2%)	
Phthisis Bulbi			1 (2%)	1 (2%)
Retina, Degeneration	2 (4%)	2 (4%)	1 (2%)	3 (6%)
Harderian Gland	(52)	(50)	(50)	(50)
Hyperplasia	3 (6%)	4 (8%)	5 (10%)	
Infiltration Cellular, Lymphocyte	1 (2%)	2 (4%)	3 (6%)	4 (8%)
Inflammation	8 (15%)	8 (16%)	12 (24%)	14 (28%)
Zymbal's Gland	(0)	(0)	(1)	(0)
URINARY SYSTEM				
Kidney	(52)	(50)	(50)	(50)
Cyst	10 (19%)	12 (24%)	17 (34%)	7 (14%)
Epithelium, Pelvis, Hyperplasia	, ,	1 (2%)	, ,	, ,
Hydronephrosis	1 (2%)	1 (2%)		1 (2%)
Infiltration Cellular, Lymphocyte		2 (4%)		
Inflammation	3 (6%)	5 (10%)	2 (4%)	2 (4%)
Mineralization	22 (42%)	14 (28%)	21 (42%)	20 (40%)
Nephropathy	26 (50%)	23 (46%)	19 (38%)	22 (44%)
Renal Tubule, Accumulation, Hyaline Droplet			2 (4%)	. ,
Urinary Bladder	(52)	(49)	(49)	(50)
Hemorrhage				1 (2%)
Inflammation				1 (2%)

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

Route: DOSED FEED

Species/Strain: Rat/CD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 11:54:54

First Dose M/F: NA / NA

Lab: NCTR

** END OF REPORT **