

**Experiment Number:** 99920-91  
**Test Type:** MULTIGEN CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:17:16  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

<b>C Number:</b>	MG96006
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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**CD Rat Male**  
**F0 CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	5	5	5	5	5	5	5	5	5	5
	0	0	0	0	0	8	8	8	8	8	9	9	9	9	0	0	0	0	0	0	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	3	3	4	4	4	7	7	8	8	8	9	1	2	2	2	5	6	6	6	6	9	0	0	0	0
	8	9	0	1	2	8	9	0	1	2	8	9	0	1	3	9	0	1	2	3	9	0	1	2	3
																								<b>*TOTALS</b>	

**Alimentary System**

Esophagus																										+	1
Liver	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24	
Hepatodiaphragmatic Nodule																										X	1
Infiltration Cellular, Lymphocyte						1									1	1					1	1		1	6	1.0	
Inflammation, Chronic Active				1											1					1					3	1.0	
Pancreas																										+	1
Acinus, Degeneration																										1	1.0

**Cardiovascular System**

Blood Vessel																										+	1
Heart																										+	1

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24	
Vacuolization Cytoplasmic	1																									1	1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	23	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24	
Cyst, Squamous																										X	4

**General Body System**

NONE																										
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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CD Rat Male F0 CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	5	5	5	5	5	5	5	5	5	5		
	0	0	0	0	0	8	8	8	8	8	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2		
	3	3	4	4	4	7	7	8	8	8	9	1	2	2	2	5	6	6	6	6	9	0	0	0	0		
	8	9	0	1	2	8	9	0	1	2	8	9	0	1	3	9	0	1	2	3	9	0	1	2	3		

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	24	
Bilateral, Developmental Malformation																X			X					X	3	
Developmental Malformation									X				X	X	X	X			X				X		7	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Atrophy																4									1 4.0	
Hypospermia																4									1 4.0	
Infiltration Cellular, Lymphocyte				1												1									2 1.0	
Prostate, Dorsal/Lateral Lobe	+			+	+	+	+	+	+	A	+	+		+	+		+	+	+	+	+	+	+	+	24	
Infiltration Cellular, Lymphocyte		1	1		2																				3 1.3	
Inflammation, Suppurative													2			1									2 1.5	
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24	
Infiltration Cellular, Lymphocyte	1	2		1	1	2	1	2	1			1	1	2	2	1	2	1			1	2	2	2	1	20 1.5
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Dilatation																3									1 3.0	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24	
Depletion Secretory										4	4			2											3 3.3	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Seminif Tub, Degeneration									2					1	4	1						1	1		6 1.7	

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Spleen	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24

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CD Rat Male F0 CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		4	4	4	4	4	4	4	4	4	3	4	4	4	4	5	5	5	5	5	5	5	5	5		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		3	3	4	4	4	7	7	8	8	9	1	2	2	2	5	6	6	6	6	9	0	0	0		
		8	9	0	1	2	8	9	0	1	2	8	9	0	1	3	9	0	1	2	3	9	0	3		
																								1	1.0	
Hyperplasia, Lymphoid																								1	1.0	
Pigmentation																								2	1.5	
Thymus		+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	24		
<b>Integumentary System</b>																										
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24		
Alveolus, Hyperplasia																								1	1.0	
Duct, Hyperplasia																								1	1.0	
Skin																								1		
<b>Musculoskeletal System</b>																										
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
<b>Nervous System</b>																										
Brain																								1		
Spinal Cord																								1		
<b>Respiratory System</b>																										
Lung																								1		
Trachea																								0		
<b>Special Senses System</b>																										
Eye																								1		
Autolysis																								4	4.0	

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 F0 CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	5	5	5	5	5	5	5	5	5	5
	0	0	0	0	0	8	8	8	8	8	9	9	9	9	0	0	0	0	0	0	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	3	3	4	4	4	7	7	8	8	8	9	1	2	2	2	5	6	6	6	6	9	0	0	0	0
	8	9	0	1	2	8	9	0	1	2	8	9	0	1	3	9	0	1	2	3	9	0	1	2	3
																								<b>*TOTALS</b>	

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	24	
Cortex, Cyst	X		X		X			X																	4	
Hyaline Droplet		1																			1				2 1.0	
Infiltration Cellular, Lymphocyte		1		1	1	1	2	1	1		1		1	1		1	1	1	1		2		2		17 1.2	
Interstitialium, Fibrosis																					1		1		2 1.0	
Renal Tubule, Degeneration										1											1				2 1.0	
Renal Tubule, Dilatation				2			2						2	1	1								2		6 1.7	
Renal Tubule, Mineralization																				1					1 1.0	
Renal Tubule, Regeneration		1		1		1		1		1											1	1	1	1	1	10 1.0
Urinary Bladder												+													1	

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CD Rat Male F0 2.0 PPB	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
	0	0	0	0	0	8	8	8	8	8	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	4	4	4	4	4	8	8	8	8	8	2	2	2	2	2	6	6	6	6	6	6	0	0	0	0	
	3	4	5	6	7	3	4	5	6	7	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8	
<b>*TOTALS</b>																										

**Alimentary System**

Liver	+	1
Developmental Malformation	X	1

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Bilateral, Developmental Malformation											X															1
Developmental Malformation						X	X		X		X	X			X	X									7	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Infiltration Cellular, Lymphocyte			1																	1	1				3	1.0
Preputial Gland															+	+									2	
Duct, Dilatation																2									1	2.0
Inflammation, Suppurative																1	2								2	1.5
Prostate, Dorsal/Lateral Lobe	+	+	+	+					+	+	+	+	+		+	+			+	+	+	+	+	+	25	
Infiltration Cellular, Lymphocyte															2										1	2.0

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**CD Rat Male  
 F0 2.0 PPB**

DAY ON TEST	ANIMAL ID																								*TOTALS	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5			
	0	0	0	0	0	8	8	8	8	8	9	9	9	9	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4	4	4	4	4	8	8	8	8	8	2	2	2	2	2	6	6	6	6	6	6	0	0			
	3	4	5	6	7	3	4	5	6	7	4	5	6	7	8	4	5	6	7	8	4	5	6			
Inflammation, Suppurative					2		1	2								1								4	1.5	
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Infiltration Cellular, Lymphocyte	1	1			2	1	2	3	1	1	2	1		1	2		2	1		2		2	1	18	1.6	
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	23		
Dilatation																2								1	2.0	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Depletion Secretory											3		2											2	2.5	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Seminif Tub, Degeneration					3																1			2	2.0	
<b>Hematopoietic System</b>																										
NONE																										
<b>Integumentary System</b>																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24		
Alveolus, Hyperplasia															2		2							2	2.0	
Duct, Hyperplasia										1														1	1.0	
Skin														+										1		
Epidermis, Hyperplasia															2									1	2.0	
Hyperkeratosis															1									1	1.0	
<b>Musculoskeletal System</b>																										
NONE																										
<b>Nervous System</b>																										

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
CD Rat Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
F0 10 PPB	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	
	0	0	0	0	0	8	8	8	8	8	9	9	9	9	9	0	0	0	0	0	0	3	3	3	3	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	4	4	5	5	5	8	8	9	9	9	2	3	3	3	3	6	7	7	7	7	0	1	1	1	1	
	8	9	0	1	2	8	9	0	1	2	9	0	1	2	3	9	0	1	2	3	9	0	1	2	3	

**Alimentary System**

Liver + 2  
 Hepatodiaphragmatic Nodule X 2

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

Coagulating Gland + 25  
 Developmental Malformation X X X X X X 8  
 Epididymis + 25  
 Preputial Gland + 3  
 Duct, Dilatation 1 2 2 1.5  
 Infiltration Cellular, Lymphocyte 1 1 1.0  
 Inflammation, Suppurative 4 4 2 4.0  
 Prostate, Dorsal/Lateral Lobe + + + + + + + + + + + + + 25  
 Infiltration Cellular, Lymphocyte 1 1 4 1.0  
 Inflammation, Suppurative 1 1 2 2 4 1.5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
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 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:18  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F0 10 PPB	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	8	8	8	8	8	9	9	9	9	0	0	0	0	0	0	3	3	3	3	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
		4	4	5	5	5	8	8	8	9	9	2	3	3	3	6	7	7	7	7	0	1	1	1	1	
		8	9	0	1	2	8	9	0	1	2	9	0	1	2	3	9	0	1	2	3	9	0	1	3	
		<b>*TOTALS</b>																								
Prostate, Ventral Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Infiltration Cellular, Lymphocyte				1	2	2	2	1	1	2		2		1	1	1	1	2	1	2	1	1	2	2	19 1.5	
Rete Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	+	+	+	+	+	+	+	+	24	
Dilatation																						4			1 4.0	
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Depletion Secretory							4																		1 4.0	
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Seminif Tub, Degeneration			1											2	1								4	1	2	6 1.8
<b>Hematopoietic System</b>																										
NONE																										
<b>Integumentary System</b>																										
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Alveolus, Dilatation																2									1 2.0	
Alveolus, Hyperplasia			2											2	3	3					1				5 2.2	
Duct, Hyperplasia									1											1					2 1.0	
<b>Musculoskeletal System</b>																										
NONE																										
<b>Nervous System</b>																										
NONE																										
<b>Respiratory System</b>																										

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 I ..Insufficient tissue  
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**Experiment Number:** 99920-91  
**Test Type:** MULTIGEN CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:17:18  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

CD Rat Male F0 10 PPB	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	8	8	8	8	8	9	9	9	9	0	0	0	0	0	0	3	3	3	3	3	3
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
		4	4	5	5	5	8	8	9	9	2	3	3	3	3	6	7	7	7	7	0	1	1	1	1	1	
		8	9	0	1	2	8	9	0	1	2	9	0	1	2	3	9	0	1	2	3	9	0	1	2	3	3
		<b>*TOTALS</b>																									

NONE  
**Special Senses System**  
  
 NONE  
**Urinary System**  
  
 NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:18  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F0 50 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	0	5	5	5	5	5	9	9	9	9	9	3	3	3	3	3	7	7	7	7	7	1	1	1
	1	3	4	5	6	7	3	4	5	6	7	4	5	6	7	8	4	5	6	7	8	4	5	6

**\*TOTALS**

**Genital System**

Coagulating Gland	A	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	24
Developmental Malformation							X	X					X					X	X		X	X			8
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Infiltration Cellular, Lymphocyte																							1		1 1.0
Preputial Gland																		+			+			2	
Duct, Dilatation																							2		1 2.0
Inflammation, Suppurative																			4						1 4.0
Prostate, Dorsal/Lateral Lobe	+			+		+	+	+		+		+	+	+		+	+	+	+	+	+	+	+	26	
Infiltration Cellular, Lymphocyte					1																				1 1.0
Inflammation, Suppurative		1	1			2				2		2	1			2						3			8 1.8
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Infiltration Cellular, Lymphocyte		1	1	2	2		2		1	2	2	2	3		1	1	1	1	1	2	1	2	2	1 2	21 1.6
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Seminal Vesicle	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Depletion Secretory												4							4						2 4.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Seminif Tub, Degeneration							1																		1 1.0

**Hematopoietic System**

Bone Marrow	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Spleen	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Hyperplasia, Lymphoid																					1				1 1.0

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:18  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F0 50 PPB**

	DAY ON TEST																																																	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																										
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																										
	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5																										
	3	0	0	0	0	0	8	8	8	8	8	9	9	9	9	9	0	0	0	0	0	0	0	0																										
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																										
	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2																										
	0	5	5	5	5	5	9	9	9	9	9	3	3	3	3	3	7	7	7	7	7	1	1	1																										
	1	3	4	5	6	7	3	4	5	6	7	4	5	6	7	8	4	5	6	7	8	4	5	6																										
																									<b>*TOTALS</b>																									
Pigmentation												1	1	1	1	1												7	1.0																					
Thymus	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25																									
<b>Integumentary System</b>																																																		
Mammary Gland	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25																									
Alveolus, Hyperplasia							2	2							2			2	2			1	2	3	1	1	10	1.8																						
Duct, Hyperplasia									1																	1					2	1.0																		
Skin	+																										1																							
<b>Musculoskeletal System</b>																																																		
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26																									
<b>Nervous System</b>																																																		
Brain	+																										1																							
Spinal Cord	A																										0																							
<b>Respiratory System</b>																																																		
Lung	+																										1																							
Trachea	+																										1																							
<b>Special Senses System</b>																																																		
NONE																																																		
<b>Urinary System</b>																																																		
Kidney	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25																									

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:19  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F0 50 PPB**

	DAY ON TEST																									*TOTALS	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5		
	3	0	0	0	0	0	8	8	8	8	8	9	9	9	9	0	0	0	0	0	0	3	3	3	3		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2		
	0	5	5	5	5	5	9	9	9	9	3	3	3	3	7	7	7	7	7	7	1	1	1	1	1		
	1	3	4	5	5	6	7	3	4	5	6	7	4	5	6	7	8	4	5	6	7	8	4	5	6		
Cortex, Cyst				X	X									X									X			4	
Hyaline Droplet											2				1			1		1	1			1		6 1.2	
Infiltration Cellular, Lymphocyte			1	1	2	1	1	2				1	2	1	1		2	1	1	1	1	1		1	1	1	19 1.2
Interstitial, Fibrosis					2																					1 2.0	
Pelvis, Dilatation											1															1 1.0	
Renal Tubule, Degeneration					1				1														1			3 1.0	
Renal Tubule, Dilatation					1	1	2	2			1			1									1	2		9 1.3	
Renal Tubule, Mineralization																1										1 1.0	
Renal Tubule, Regeneration			1		1	1	1	1			1				1	1				1	1			1	2	12 1.1	
Urinary Bladder																										1	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:19  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
		1	1	1	1	1	1	2	1	1	1	1	2	2	2	1	1	3	2	2	1	3	2	0	2	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	
		6	6	6	6	6	6	0	0	0	0	0	4	4	4	5	5	8	9	9	9	9	3	3	3	3
		4	5	6	7	8	9	5	6	7	8	9	7	8	9	0	1	9	0	1	2	3	1	2	3	4
		<b>*TOTALS</b>																								

**Alimentary System**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Infiltration Cellular, Lymphocyte				1	1		1				1											1			5	1.0
Inflammation, Chronic Active						1					1					1	1		1		1				6	1.0
Mesentery																									1	
Fat, Necrosis																	4								1	4.0

**Cardiovascular System**

NONE

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Vacuolization Cytoplasmic					1														1		1				3	1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	24	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Cyst, Squamous																								X	2	
Cyst, Squamous, Multiple																								X	1	

**General Body System**

NONE

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
-------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:19  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 CONTROL	DAY ON TEST																								ANIMAL ID		*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0			
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0			
	6	6	6	6	6	6	0	0	0	0	0	4	4	4	5	5	8	9	9	9	9	3	3	0			
	4	5	6	7	8	9	5	6	7	8	9	0	1	9	0	1	2	3	1	2	3	2	3	0			
Bilateral, Developmental Malformation										X	X																2
Developmental Malformation					X	X									X							X					4
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Infiltration Cellular, Lymphocyte	1	1																						2	1.0		
Preputial Gland													+									+	+	3			
Atrophy																						1	2	2	1.5		
Inflammation, Suppurative												2												1	2.0		
Prostate, Dorsal/Lateral Lobe	+	+	+	+	+	+	+	+		+	+	+		+			+	+			+	+	+	25			
Infiltration Cellular, Lymphocyte	1												1						2					3	1.3		
Inflammation, Suppurative			1							1					4	1				1		2		6	1.7		
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Infiltration Cellular, Lymphocyte	1	2	1	1	2	1	2	2			1		1	1		2		1	4		2	4		17	1.7		
Inflammation, Suppurative																				1			1	2	1.0		
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Depletion Secretory																3					3			2	3.0		
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Seminif Tub, Degeneration	1							2																2	1.5		
<b>Hematopoietic System</b>																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Hematopoietic Cell Proliferation																								1	2.0		

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:19  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 CONTROL**

	DAY ON TEST																										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	*TOTALS		
Pigmentation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.0	
Thymus	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	25		
<b>Integumentary System</b>																											
Mammary Gland	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	25		
Alveolus, Hyperplasia	1	1	1	1	1	1	2	1	1	1	1	2	2	2	1	1	3	2	2	1	3	2	0	2	1	3.0	
<b>Musculoskeletal System</b>																											
Bone	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	25	
<b>Nervous System</b>																											
NONE	6	6	6	6	6	6	0	0	0	0	0	4	4	4	5	5	8	9	9	9	9	3	3	3	3		
<b>Respiratory System</b>																											
NONE	4	5	6	6	7	8	9	5	6	7	8	9	0	1	9	0	1	2	3	1	2	3	4	4			
<b>Special Senses System</b>																											
NONE	4	5	6	6	7	8	9	5	6	7	8	9	0	1	9	0	1	2	3	1	2	3	4	4			
<b>Urinary System</b>																											
Kidney	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	25	
Congestion	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	2	2.0
Cortex, Cyst	1	1	1	1	1	1	2	1	1	1	1	2	2	1	1	3	2	2	1	3	2	0	2	0	4		
Hyaline Droplet	1	1	1	1	1	1	2	1	1	1	1	2	2	1	1	3	2	2	1	3	2	0	2	0	4	1.3	
Infiltration Cellular, Lymphocyte	1	1	1	1	1	1	2	1	1	1	1	2	2	1	1	3	2	2	1	3	2	0	2	0	18	1.1	

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:19  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	ANIMAL ID	1	1	1	1	1	1	2	1	1	1	1	2	2	2	1	1	3	2	2	2	1	3	2	0	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4
	6	6	6	6	6	6	0	0	0	0	0	4	4	4	4	5	5	8	9	9	9	9	3	3	3	3
	4	5	6	7	8	9	5	6	7	8	9	7	8	9	0	1	9	0	1	2	3	1	2	3	4	
	<b>*TOTALS</b>																									
Inflammation, Chronic																									1	2.0
Interstitial, Fibrosis																									4	1.3
Renal Tubule, Dilatation																									9	1.7
Renal Tubule, Regeneration																									9	1.0

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:20  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 2.0 PPB**

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Prostate, Dorsal/Lateral Lobe	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	25	
Infiltration Cellular, Lymphocyte	1																								1	1.0
Inflammation, Suppurative	1	1	1	1	1	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2.0
Prostate, Ventral Lobe	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	25	
Infiltration Cellular, Lymphocyte	7	7	7	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	1.3
Inflammation, Suppurative	0	1	2	3	4	0	1	2	3	4	2	3	4	5	5	6	7	4	5	6	7	8	9	9	1	2.0
Rete Testes	+	+	+	+	+	+	+	I	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	23	
Dilatation					2						3											2	3		4	2.5
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Semini Tub, Degeneration					4	4					4											4	3		5	3.8

**\*TOTALS**

**Hematopoietic System**

NONE

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	24	
Alveolus, Hyperplasia				1		2				2				1				2	2				1		7	1.6
Duct, Hyperplasia										2															1	2.0

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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**Experiment Number:** 99920-91  
**Test Type:** MULTIGEN CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
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**First Dose M/F:** NA / NA  
**Lab:** NCTR

**CD Rat Male**  
**F1 2.0 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4
	7	7	7	7	7	1	1	1	1	1	5	5	5	5	5	5	9	9	9	9	9	3	3	3	3
	0	1	2	3	4	0	1	2	3	4	2	3	4	5	6	7	4	5	6	7	8	9	5	6	7

**\*TOTALS**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

Kidney

Congestion

Cortex, Cyst

Developmental Malformation

Infiltration Cellular, Lymphocyte

+

+

2

2

1 2.0

X

1

X

1

1

1 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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Experiment Number: 99920-91  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
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Lab: NCTR

**CD Rat Male**  
**F1 10 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	2	2	2	2	2	3	2	2	2	2	3	3	3	2	2	2	2	1	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4
	7	7	7	7	7	1	1	1	1	1	2	5	5	6	6	6	6	0	0	0	0	0	3	3	4
	5	6	7	8	9	5	6	7	8	9	0	8	9	0	1	2	3	0	1	2	3	4	8	9	0
																								<b>*TOTALS</b>	

**Alimentary System**

Liver																											+		1			
Hepatodiaphragmatic Nodule																												X			1	
Mesentery																															1	
Fat, Necrosis																													4		1	4.0

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				25				
Developmental Malformation																												X			2			
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				25			
Atrophy																												2			1	2.0		
Epithelium, Degeneration																												2			1	2.0		
Hypospermia																												4			1	4.0		
Infiltration Cellular, Lymphocyte																												1		1	1	1	5	1.0
Preputial Gland																													+	+			3	

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+ ..Tissue examined microscopically M ..Missing tissue 1-4 ..Lesion qualified as:  
X ..Lesion present A ..Autolysis precludes evaluation 1) Minimal 3) Moderate  
I ..Insufficient tissue BLANK ..Not examined microscopically 2) Mild 4) Marked





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 Species/Strain: Rat/CD

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 CAS Number: 57-63-6

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

CD Rat Male  
 F1 10 PPB

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	2	2	2	2	2	3	2	2	2	2	3	3	3	2	2	2	1	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
	7	7	7	7	7	1	1	1	1	1	2	5	5	6	6	6	6	0	0	0	0	3	3
	5	6	7	8	9	5	6	7	8	9	0	8	9	0	1	2	3	0	1	2	3	4	8

\*TOTALS

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cortex, Cyst	X										X				X									3
Hyaline Droplet																	1							1 1.0
Infiltration Cellular, Lymphocyte		1		1	1		1	1	1			1	1				1	1			1	1		12 1.0
Inflammation, Chronic										1														1 1.0
Renal Tubule, Dilatation							1		2								2		2	1		1		6 1.5
Renal Tubule, Hyperplasia											2													1 2.0
Renal Tubule, Regeneration								1	1									1			1			4 1.0

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+ ..Tissue examined microscopically

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I ..Insufficient tissue

M ..Missing tissue

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BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:20  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F1 50 PPB	DAY ON TEST	ANIMAL ID																								*TOTALS		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
		0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
		9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
		8	1	1	1	1	1	1	1	1	1	0	2	2	2	2	2	3	3	2	2	2	2	2	2			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4			
		3	8	8	8	8	8	2	2	2	2	2	2	2	2	2	6	6	6	6	6	6	6	6				
		1	0	1	2	3	4	1	2	3	4	5	6	4	5	6	7	8	5	6	7	8	9	0	1	2	3	

**Alimentary System**

Esophagus	+																									1	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Hepatodiaphragmatic Nodule																X			X					X	3		
Inflammation, Chronic Active				1			1			1	1	1	1				1		2		1		1		10	1.1	
Vacuolization Cytoplasmic																						1			1	1.0	
Oral Mucosa													+												1		
Abscess													4												1	4.0	
Pancreas	+																								1		

**Cardiovascular System**

Blood Vessel	+																								1	
Heart	+																								1	
Cardiomyopathy	1																								1	1.0

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Vacuolization Cytoplasmic											1														1	1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26		
Pars Distalis, Cyst											X													1		
Pars Distalis, Cyst, Multiple							X							X										2		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26		

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:20  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 50 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	8	1	1	1	1	1	1	1	1	1	1	0	2	2	2	2	2	3	3	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
	3	8	8	8	8	8	2	2	2	2	2	2	6	6	6	6	6	0	0	0	0	0	1	4	4	4
	1	0	1	2	3	4	1	2	3	4	5	6	4	5	6	7	8	5	6	7	8	9	0	1	2	3

**\*TOTALS**

Cyst, Squamous, Multiple X 1

**General Body System**

NONE

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Bilateral, Developmental Malformation										X																1
Developmental Malformation																	X				X	X	X			4
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Hypospermia	4																									1 4.0
Preputial Gland																+										1
Prostate, Dorsal/Lateral Lobe	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Inflammation, Suppurative											1		1								2	1				4 1.3
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Infiltration Cellular, Lymphocyte	1		2			2	1	1		1	1		1	2	1	1		3	3		3	3		2	1	17 1.7
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Seminif Tub, Degeneration	4												1													2 2.5

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26

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 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:21  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 50 PPB**

	DAY ON TEST																									ANIMAL ID	*TOTALS					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		
	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0		
	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0		
	3	8	8	8	8	8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0		
	1	0	1	2	3	4	1	2	3	4	5	6	4	5	6	7	8	5	6	7	8	9	0	1	2	3	4	4	4	0		
Hyperplasia, Lymphoid											1																			1	1.0	
Pigmentation													1							1						1				4	1.0	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26		
<b>Integumentary System</b>																																
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26		
Alveolus, Hyperplasia			4	2				2		4	2		2		3					1	3		3							10	2.6	
Duct, Hyperplasia	2				2		2		2				2		2	1	3	3									1			10	2.0	
Skin	+																													1		
<b>Musculoskeletal System</b>																																
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26		
<b>Nervous System</b>																																
Brain	+																													1		
Spinal Cord	+																													1		
<b>Respiratory System</b>																																
Lung	+																													1		
Trachea	+																													1		
<b>Special Senses System</b>																																
NONE																																
<b>Urinary System</b>																																

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:21  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 50 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	8	1	1	1	1	1	1	1	1	1	0	2	2	2	2	2	3	3	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
	3	8	8	8	8	8	2	2	2	2	2	2	2	2	2	2	6	6	6	6	6	6	6	6	6	6
	1	0	1	2	3	4	1	2	3	4	5	6	4	5	6	7	8	5	6	7	8	9	0	1	4	4

**\*TOTALS**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26					
Congestion										2	2																2	2.0				
Cortex, Cyst																												1				
Cortex, Cyst, Multiple							X																					1				
Hyaline Droplet											1			1					1		2				1			5	1.2			
Infiltration Cellular, Lymphocyte						1		1	1	1	1		2	1	1	1		1	1	1	1	1		1				17	1.1			
Inflammation, Chronic																1													1	1.0		
Interstitial, Fibrosis												2																	1	2.0		
Renal Tubule, Degeneration									1																				1	1.0		
Renal Tubule, Dilatation						1		2		1			2	1			1	3	2		1			1		3			11	1.6		
Renal Tubule, Hyperplasia																1														1	1.0	
Renal Tubule, Mineralization																														9	1.3	
Renal Tubule, Regeneration																														13	1.1	
Urinary Bladder																															1	

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+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:21  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F2 CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
		1	1	1	1	1	2	2	2	1	1	3	3	2	3	3	3	3	3	1	5	4	3	5	2	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	
		9	9	9	9	4	4	4	4	4	4	8	8	8	9	3	3	3	3	3	3	5	6	6	7	7
		4	5	7	8	4	5	6	7	8	9	7	8	9	0	1	2	3	4	5	6	9	0	1	2	3

**Alimentary System**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Infiltration Cellular, Lymphocyte											1											1			3	1.0
Inflammation, Chronic Active			1		1						1	1		1		1		1				1	1		10	1.0

**Cardiovascular System**

NONE

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Vacuolization Cytoplasmic																						1			1	1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	24	
Pituitary Gland	+	+	+	+	I	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	23	
Pars Distalis, Cyst, Multiple																								X	1	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	24	
Cyst, Squamous			X									X			X			X							4	
Ectopic Thymus																						X			1	

**General Body System**

NONE

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Developmental Malformation					X				X			X		X		X	X	X				X			8

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
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 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:21  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F2 CONTROL	DAY ON TEST																								*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Epididymis	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	25	
Atrophy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2 2.0	
Hypospermia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4 4.0	
Infiltration Cellular, Lymphocyte	1	1	1	1	1	2	2	2	1	1	3	3	2	2	3	3	3	3	3	3	1	5	4	3 5 2	
Prostate, Dorsal/Lateral Lobe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	
Infiltration Cellular, Lymphocyte	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8 1.4	
Inflammation, Suppurative	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	4 1.3	
Prostate, Ventral Lobe	9	9	9	9	4	4	4	4	4	4	4	4	8	8	8	9	3	3	3	3	3	5	6	25	
Infiltration Cellular, Lymphocyte	4	5	7	8	4	5	6	7	8	9	7	8	9	0	1	2	3	4	5	6	9	0	1	9 1.2	
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24	
Dilatation																								2 2.5	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Depletion Secretory																								1 3.0	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Seminif Tub, Degeneration																								4 3.3	
<b>Hematopoietic System</b>																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Myeloid Cell, Hyperplasia																								2 2.0	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Hematopoietic Cell Proliferation																								1 1.0	
Pigmentation																								1 1.0	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	

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 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
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Experiment Number: 99920-91  
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 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:21  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F2 CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	2	2	2	1	1	3	3	2	2	3	3	3	3	3	1	5	4	3	5	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	4	4	4	4	4	4	8	8	8	8	9	3	3	3	3	3	5	6	6	7	7
	4	5	7	8	4	5	6	7	8	9	7	8	9	0	1	2	3	4	5	6	9	0	1	2	3
																								<b>*TOTALS</b>	

Hemorrhage																								3	1	3.0																	
<b>Integumentary System</b>																																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25																		
Alveolus, Hyperplasia																								2	1	2	3	1.7															
<b>Musculoskeletal System</b>																																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25																		
<b>Nervous System</b>																																											
NONE																																											
<b>Respiratory System</b>																																											
NONE																																											
<b>Special Senses System</b>																																											
NONE																																											
<b>Urinary System</b>																																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25																		
Casts Protein																								2	1	2.0																	
Cortex, Cyst	X	X	X				X																	4																			
Hyaline Droplet																								2	2	1	2	2	1	2	7	1.7											
Infiltration Cellular, Lymphocyte																								1	1	1	2	1	1	1	1	1	1	1	1	1	2	1	2	1	2	21	1.2
Inflammation, Chronic																								2	1	2.0																	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:21  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F2 CONTROL**

	DAY ON TEST																										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
	1	1	1	1	1	2	2	2	1	1	3	3	2	2	3	3	3	3	3	1	5	4	3	5	2		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6			
	9	9	9	9	4	4	4	4	4	4	8	8	8	9	3	3	3	3	3	3	5	6	6	7			
	4	5	7	8	4	4	5	6	7	8	9	7	8	9	0	1	2	3	4	5	6	9	0	1	2	3	
																									<b>*TOTALS</b>		
Renal Tubule, Dilatation	2	2						2											2					1	5 1.8		
Renal Tubule, Mineralization				1																					1 1.0		
Renal Tubule, Regeneration	1							1		1	1	1					1	2	2		1	1	1	2	12 1.3		

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F2 2.0 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	0	2	1	1	1	1	1	1	1	1	1	5	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
	9	0	0	0	0	0	0	5	5	5	5	9	9	9	3	3	3	4	6	6	6	6	6	7	7
	9	0	1	2	3	4	5	0	1	2	3	1	2	3	7	8	9	0	2	3	4	5	6	4	5
	<b>*TOTALS</b>																								

**Alimentary System**

Intestine Small, Ileum																										1	
Hyperplasia, Lymphoid																										1	2.0
Liver																										1	
Hepatodiaphragmatic Nodule																										1	

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	M	+	+	+	+	+	+	+	+	+	23	
Developmental Malformation														X			X						X			5	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Atrophy																										2	3.5
Hypospermia																										2	4.0
Infiltration Cellular, Lymphocyte																										1	1.0
Preputial Gland																										2	
Duct, Dilatation																										1	3.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 99920-91  
**Test Type:** MULTIGEN CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 11:17:22  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**CD Rat Male**  
**F2 2.0 PPB**

	DAY ON TEST																																																	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																										
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																										
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6																										
	1	1	1	1	1	1	0	2	1	1	1	1	1	1	1	1	1	5	2	2	2	2	2	2																										
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																										
	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6																										
	9	0	0	0	0	0	0	5	5	5	5	9	9	9	3	3	3	4	6	6	6	6	7	7																										
	9	0	1	2	3	4	5	0	1	2	3	1	2	3	7	8	9	0	2	3	4	5	6	5																										
																									<b>*TOTALS</b>																									
Inflammation, Suppurative																									4	4	2	4.0																						
Prostate, Dorsal/Lateral Lobe	+																									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Infiltration Cellular, Lymphocyte		2	1	2	1	1	1		1			2			1		2										10	1.4																						
Inflammation, Suppurative																									2		1	2.0																						
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25																							
Infiltration Cellular, Lymphocyte	1																									1		1	1	2		2	2	2															8	1.5
Inflammation, Suppurative																									1		1	1.0																						
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24																						
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25																						
Depletion Secretory	3																											1	3.0																					
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25																						
Seminif Tub, Degeneration																									4	1	3	3.0																						
<b>Hematopoietic System</b>																																																		
Thymus																									+		1																							
Hemorrhage																									2		1	2.0																						
<b>Integumentary System</b>																																																		
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25																						
Alveolus, Hyperplasia																									2		2	1	3	1.7																				
Duct, Hyperplasia																									2	1	1	1	5	1.2																				
<b>Musculoskeletal System</b>																																																		
NONE																																																		

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue  
M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically  
1-4 ..Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F2 2.0 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	0	2	1	1	1	1	1	1	1	1	1	1	5	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6
	9	0	0	0	0	0	0	5	5	5	5	9	9	9	3	3	3	4	6	6	6	6	7	7
	9	0	1	2	3	4	5	0	1	2	3	1	2	3	7	8	9	0	2	3	4	5	6	5
	<b>*TOTALS</b>																							

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F2 10 PPB**

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	3		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6		
	0	0	0	0	1	1	1	1	5	5	5	5	5	5	9	9	9	9	4	4	4	4	4	6		
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	4	5	6	7	8	1	2	3	4	5		
																									*TOTALS	
Inflammation, Suppurative																									1	1 1.0
Rete Testes	+	+	+	+	+	+		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+		
Dilatation																									2	1 2.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Seminif Tub, Degeneration																									4	1 2 2.5
<b>Hematopoietic System</b>																										
NONE																										
<b>Integumentary System</b>																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Alveolus, Hyperplasia	1				2							2							2			2	2			2
Duct, Hyperplasia			1	2	1							3	2	2	1					2						
<b>Musculoskeletal System</b>																										
NONE																										
<b>Nervous System</b>																										
NONE																										
<b>Respiratory System</b>																										
NONE																										
<b>Special Senses System</b>																										

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F2 10 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6
	0	0	0	0	1	1	1	1	5	5	5	5	5	5	9	9	9	9	4	4	4	4	4	4	6
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	4	5	6	7	8	1	2	3	4	5	7
																								<b>*TOTALS</b>	

NONE  
**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cortex, Cyst					X										X										2
Hyaline Droplet								1																	1 1.0
Infiltration Cellular, Lymphocyte		1	3							1				1				1	1	1					7 1.3
Inflammation, Chronic																				1					1 1.0
Pelvis, Dilatation			3								1														2 2.0
Renal Tubule, Degeneration			2																						1 2.0
Renal Tubule, Dilatation																			1				2		2 1.5
Renal Tubule, Regeneration			3					1		1	1				1							1			6 1.3

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:22  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F2 50 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	1	1	1	1	3	2	2	2	1	1	1	1	2	1	1	1	1	1	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	6	6	6	6	9	0	0	0	0	0	0	0	4	4	4	4	5	5	6
	4	5	6	7	8	0	1	2	3	4	9	0	1	2	3	4	5	6	6	7	8	9	0	1	8
																								<b>*TOTALS</b>	

**Alimentary System**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Erythrophagocytosis																								1	1 1.0
Hematopoietic Cell Proliferation																								1	1 1.0
Hepatodiaphragmatic Nodule																			X						1
Infiltration Cellular, Lymphocyte	1																								1 1.0
Inflammation, Chronic Active		1		1		1	1	1	1		1				1			1	1		1		1		12 1.0

**Cardiovascular System**

NONE																									
<b>Endocrine System</b>																									
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pars Distalis, Hypertrophy														2											1 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst, Squamous				X									X										X		3
Cyst, Squamous, Multiple					X										X										2

**General Body System**

NONE																									
<b>Genital System</b>																									

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F2 50 PPB**

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	*TOTALS	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
Coagulating Gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	
Developmental Malformation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
Epididymis	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	25	
Atrophy	1	1	1	1	1	1	1	1	1	1	1	3	2	2	2	1	1	1	1	1	1	1	1	1	1 2.0	
Hypospermia	4	5	6	7	8	0	1	2	3	4	9	0	0	0	0	0	0	0	4	4	4	4	5	6	1 4.0	
Infiltration Cellular, Lymphocyte	1	1	1	1	1	6	6	6	6	6	9	0	0	0	0	0	0	0	4	4	4	4	5	6	1 1.0	
Prostate, Dorsal/Lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Infiltration Cellular, Lymphocyte	2	1	2		1					2	2	2					1	3		1					10 1.7	
Inflammation, Suppurative				1											1								1		3 1.0	
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Infiltration Cellular, Lymphocyte				1	2							1		2	1			1	1	1	3	1	1		11 1.4	
Inflammation, Suppurative		1	1													1	2								4 1.3	
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Dilatation													3												1 3.0	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Depletion Secretory		2																							1 2.0	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Seminif Tub, Degeneration													4												1 4.0	
<b>Hematopoietic System</b>																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Erythroid Cell, Hyperplasia																							2		1 2.0	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F2 50 PPB	DAY ON TEST																								*TOTALS	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0
Pigmentation					1								2				1					2			4	1.5
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
<b>Integumentary System</b>																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Alveolus, Hyperplasia	4	4			4	3							2	4	3	2	2		2		3		3	3	13	3.0
Duct, Hyperplasia			4	1			2	1	1	1	3	1	2					2		2		2			12	1.8
<b>Musculoskeletal System</b>																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
<b>Nervous System</b>																										
NONE																										
<b>Respiratory System</b>																										
NONE																										
<b>Special Senses System</b>																										
NONE																										
<b>Urinary System</b>																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Cortex, Cyst	X				X						X	X													4	
Hyaline Droplet		1	2				1		1					2	2	1					1				8	1.4

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F2 50 PPB**

	DAY ON TEST																								*TOTALS	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
	1	1	1	1	1	1	1	1	1	1	3	2	2	2	1	1	1	1	2	1	1	1	1	4		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6		
	1	1	1	1	1	1	6	6	6	6	9	0	0	0	0	0	0	0	4	4	4	4	5	6		
	4	5	6	7	8	0	1	2	3	4	9	0	1	2	3	4	5	6	6	7	8	9	0	8		
Infiltration Cellular, Lymphocyte	1			1	1		1	1	1	1	2	1	1	1		1	1	1	1	1	1	1	1	1	21	1.0
Interstitial, Fibrosis											1														1	1.0
Renal Tubule, Degeneration																					1				1	1.0
Renal Tubule, Dilatation				1	2					2	1	2	1			1								2	8	1.5
Renal Tubule, Mineralization	1										1		2		1	1	1		1	1			1	2	10	1.2
Renal Tubule, Regeneration				1	1				1		2	1			1			1		1			1	1	10	1.1

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

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1-4 ..Lesion qualified as:

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2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F3 CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
		1	1	1	1	1	1	2	2	2	2	3	3	3	3	2	2	2	2	3	3	1	5	5		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	9		
		3	3	3	3	3	3	7	7	7	7	8	1	2	2	2	2	6	6	6	6	7	0	0		
		0	1	2	3	4	5	6	7	8	9	0	9	0	1	2	3	5	6	7	8	9	0	1	2	

**Alimentary System**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Infiltration Cellular, Lymphocyte				1													1	1	1						4 1.0
Inflammation, Chronic Active	1	1		1			1				1			1					1			1	1		9 1.0

**Cardiovascular System**

NONE

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Vacuolization Cytoplasmic										2											2				2 2.0
Adrenal Medulla	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pars Distalis, Cyst																							X		1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst, Squamous							X	X				X											X		4
Infiltration Cellular, Lymphocyte			1																						1 1.0

**General Body System**

NONE

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Developmental Malformation			X		X																				2

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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M ..Missing tissue

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F3 CONTROL	DAY ON TEST																								*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Epididymis	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	25	
Infiltration Cellular, Lymphocyte	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0
Prostate, Dorsal/Lateral Lobe	1	1	1	1	1	1	2	2	2	2	2	3	3	3	2	2	2	2	3	3	1	5	5	25	
Infiltration Cellular, Lymphocyte	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1.0
Inflammation, Suppurative	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	7	1.1
Prostate, Ventral Lobe	3	3	3	3	3	3	7	7	7	7	8	1	2	2	2	2	6	6	6	6	7	0	0	25	
Infiltration Cellular, Lymphocyte	0	1	2	3	4	5	6	7	8	9	0	9	0	1	2	3	5	6	7	8	9	0	1	17	1.3
Inflammation, Suppurative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.0
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Seminif Tub, Degeneration				1							1													2	1.0
<b>Hematopoietic System</b>																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Myeloid Cell, Hyperplasia																	2							1	2.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Hyperplasia, Lymphoid																2								1	2.0
Pigmentation																						1		1	1.0
Thymus	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24	
Congestion				2																				1	2.0
<b>Integumentary System</b>																									
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F3 CONTROL	DAY ON TEST																								ANIMAL ID			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0			
	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	2	2	2	2	3	3	1	5	5	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	9	0			
	3	3	3	3	3	3	7	7	7	7	8	1	2	2	2	2	6	6	6	6	7	0	0	0	0			
	0	1	2	3	4	5	6	7	8	9	0	9	0	1	2	3	5	6	7	8	9	0	0	1	2	<b>*TOTALS</b>		
Alveolus, Hyperplasia									2	1																	2	1.5
Duct, Hyperplasia																								2			1	2.0
<b>Musculoskeletal System</b>																												
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
<b>Nervous System</b>																												
NONE																												
<b>Respiratory System</b>																												
NONE																												
<b>Special Senses System</b>																												
NONE																												
<b>Urinary System</b>																												
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Bilateral, Pelvis, Dilatation																								3			1	3.0
Congestion			2														2										2	2.0
Hyaline Droplet												1	1														2	1.0
Infiltration Cellular, Lymphocyte	2	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			21	1.0	
Renal Tubule, Dilatation								2			1								2							3	1.7	
Renal Tubule, Regeneration	1						1			1	1	1		1		1	1		1			1				10	1.0	

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:23  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F3/2PPB TO CTRL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	2	2	1	1	1	2	2	3	1	1	1	2	1	1	2	1	1	1	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	9
	3	3	3	3	4	4	8	8	8	8	8	8	2	2	2	2	2	2	7	7	7	7	7	0	
	6	7	8	9	0	1	1	2	3	4	5	6	4	5	6	7	8	9	1	2	3	4	5	6	3
																								<b>*TOTALS</b>	

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Bilateral, Developmental Malformation																			X						1
Developmental Malformation								X	X		X	X								X	X		X		7
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Atrophy						3	3																		3 3.0
Hypospermia						4	4																		3 4.0
Infiltration Cellular, Lymphocyte					1						1														2 1.0
Prostate, Dorsal/Lateral Lobe	+	+	+	+	+			+	+	+	+	+		+	+			+					+	+	25
Infiltration Cellular, Lymphocyte			1	1															1						3 1.0
Inflammation, Suppurative	1				1									1					1	1	2	1		1	9 1.1
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:24  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F3/2PPB TO CTRL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ANIMAL ID	*TOTALS
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	
	1	1	1	1	1	1	1	2	2	1	1	1	2	2	3	1	1	1	2	1	1	2	1	1	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	0	
	3	3	3	3	4	4	8	8	8	8	8	8	2	2	2	2	2	7	7	7	7	7	7	0		
	6	7	8	9	0	1	1	2	3	4	5	6	4	5	6	7	8	9	1	2	3	4	5	6	0	
Infiltration Cellular, Lymphocyte	2	2	2	1	2	1	1	1	1	1	1					1	1	1						17	1.3	
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24		
Dilatation							3						2			1								3	2.0	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Seminif Tub, Degeneration				3		4	4								4								1	5	3.2	
<b>Hematopoietic System</b>																										
NONE																										
<b>Integumentary System</b>																										
NONE																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Alveolus, Hyperplasia			3	1					1	2				2										5	1.8	
Duct, Hyperplasia																	2							1	2.0	
<b>Musculoskeletal System</b>																										
NONE																										
<b>Nervous System</b>																										
NONE																										
<b>Respiratory System</b>																										
NONE																										
<b>Special Senses System</b>																										
NONE																										

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked







Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:24  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F3/10PPB TO CTRL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	1	1	1	1	2	2	0	1	1	2	1	1	1	2	1	2	1	2	1	1	4	5	5	5		
Prostate, Dorsal/Lateral Lobe		+	+	+		+		+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+	25	
Inflammation, Suppurative		1			3		1		2					3	1		2			1						8 1.8	
Prostate, Ventral Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Infiltration Cellular, Lymphocyte			1	2	1	1	1		1		1	1		2	1				1	1		2	1			14 1.2	
Rete Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Depletion Secretory		3																								1 3.0	
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Seminif Tub, Degeneration					1						1															2 1.0	
<b>Hematopoietic System</b>																											
NONE																											
<b>Integumentary System</b>																											
Mammary Gland		+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24	
Alveolus, Hyperplasia																		1	2		3			2		4 2.0	
Duct, Hyperplasia						1							1			1										3 1.0	
<b>Musculoskeletal System</b>																											
NONE																											
<b>Nervous System</b>																											
NONE																											
<b>Respiratory System</b>																											

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked















Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:25  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F4 CONTROL**

DAY ON TEST	ANIMAL ID																								*TOTALS														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0															
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6															
	1	1	0	0	1	1	0	0	9	2	1	1	1	0	2	2	1	2	0	2	5	4	2	4															
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0															
	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1															
	6	6	6	6	0	0	0	0	0	4	4	4	5	5	8	9	9	9	9	2	2	2	2	3															
	1	2	3	4	4	5	6	7	8	7	9	8	9	1	8	0	1	2	3	4	1	2	2	4															
																							9																
Developmental Malformation																							X	X	X			X	X	X	X	X			X			9	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25															
Prostate, Dorsal/Lateral Lobe	+	+	+	+			+	+			+			+	+	+	+	+	+	+	+	+	+	25															
Inflammation, Suppurative					1				1			2	2			1			1					6	1.3														
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25															
Infiltration Cellular, Lymphocyte			1	1	1	2	2			1			1			1	1	2			2	2			1	2	14	1.4											
Inflammation, Suppurative												1												1	1.0														
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25															
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25															
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25															
Seminif Tub, Degeneration	1																							1	1.0														
<b>Hematopoietic System</b>																																							
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25															
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25															
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25															
<b>Integumentary System</b>																																							
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25															
Alveolus, Hyperplasia								1												1			1			3	1.0												
Duct, Hyperplasia				1																					1	1.0													
<b>Musculoskeletal System</b>																																							
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25															

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:25  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F4 CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	1	0	0	1	1	0	0	9	2	1	1	1	0	2	2	1	2	0	2	5	4	2	2	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
	6	6	6	6	0	0	0	0	0	4	4	4	5	5	8	9	9	9	9	2	2	2	2	3	
	1	2	3	4	4	5	6	7	8	7	8	9	0	1	9	0	1	2	3	4	1	2	3	4	8
	<b>*TOTALS</b>																								

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cortex, Cyst						X																			1
Infiltration Cellular, Lymphocyte		1		1		1	1		1		1	1	1						1	1	1	1	1		14 1.0
Inflammation, Chronic																		1							1 1.0
Renal Tubule, Dilatation																			1	1					2 1.0
Renal Tubule, Regeneration							1	1	1		1	1		1					1	1					8 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:26  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F4/2PPB TO CTRL**

	DAY ON TEST																														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6							
	1	1	1	1	1	1	2	2	2	2	1	2	2	2	2	2	2	2	1	1	5	4	0	4							
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1							
	6	6	6	6	6	7	0	1	1	1	1	5	5	5	5	5	9	9	9	9	2	2	2	3							
	5	6	7	8	9	0	0	1	1	2	3	2	3	4	5	6	5	6	7	8	5	6	7	9							
																									<b>*TOTALS</b>						
Rete Testes																									24						
Seminal Vesicle																									25						
Testes																									25						
Seminif Tub, Degeneration																									1	1	1	3	1.0		
<b>Hematopoietic System</b>																															
NONE																															
<b>Integumentary System</b>																															
Mammary Gland																									25						
Alveolus, Hyperplasia																									2	1	2	3	3	5	2.2
<b>Musculoskeletal System</b>																															
NONE																															
<b>Nervous System</b>																															
NONE																															
<b>Respiratory System</b>																															
NONE																															
<b>Special Senses System</b>																															
NONE																															
<b>Urinary System</b>																															
NONE																															

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:26  
 First Dose M/F: NA / NA  
 Lab: NCTR

DAY ON TEST	ANIMAL ID																								*TOTALS	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
CD Rat Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
F4/10PPB TO CTRL	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	2	1	1	1	1	0	0	2	2	1	1	0	0	2	2	1	1	0	2	2	2	1	5	4	4	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	
	1	7	7	7	7	7	7	1	1	1	1	1	1	5	5	5	6	6	9	0	0	0	2	3	3	
	4	1	2	3	4	5	6	4	5	6	7	8	9	7	8	9	0	1	9	0	1	2	9	0	1	2

NONE																											
<b>Genital System</b>																											
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Developmental Malformation											X			X			X		X				X				6
Hypoplasia	4																										1 4.0
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Hypoplasia	4																										1 4.0
Preputial Gland																											1
Inflammation, Suppurative																											1 3.0
Prostate, Dorsal/Lateral Lobe	+	+		+		+		+	+	+	+			+	+	+		+	+		+	+	+		+	26	
Hypoplasia	4																										1 4.0
Inflammation, Suppurative				2		1		2					1	1			2			2				1		1	9 1.4
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Hypoplasia	4																										1 4.0
Infiltration Cellular, Lymphocyte				1	2		2		2		1	2				1	2	2		2		2		1		2	13 1.7
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Hypoplasia	4																										1 4.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Hypoplasia	4																										1 4.0
<b>Hematopoietic System</b>																											
Bone Marrow	+																										1

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
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 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:26  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F4/10PPB TO CTRL**

	DAY ON TEST																										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
	2	1	1	1	1	0	0	2	2	1	1	0	0	2	2	1	1	0	2	2	2	1	5	4	4		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1			
	1	7	7	7	7	7	7	1	1	1	1	1	1	1	5	5	5	6	6	9	0	0	0	2			
	4	1	2	3	4	5	6	4	5	6	7	8	9	7	8	9	0	1	9	0	1	2	9	0			
																									<b>*TOTALS</b>		
Spleen	+																							1			
Congestion	3																								1	3.0	
Hyperplasia, Lymphoid	3																								1	3.0	
Thymus	+																							1			
Atrophy	4																								1	4.0	
<b>Integumentary System</b>																											
Mammary Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Alveolus, Hyperplasia						1					3	2						2		2					5	2.0	
Duct, Hyperplasia												1					1								2	1.0	
Skin	+																							1			
<b>Musculoskeletal System</b>																											
Bone	+																							1			
<b>Nervous System</b>																											
Brain	+																							1			
Spinal Cord	+																							1			
<b>Respiratory System</b>																											
Lung	+																							1			
Infiltration Cellular, Histiocyte	2																								1	2.0	
Peribronchiolr, Infiltration Cellular, Lymphocyte	4																								1	4.0	
Trachea	+																							1			

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked









Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:27  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F4/50PPB TO CTRL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	1	2	1	1	1	1	1	2	2	1	1	0	3	2	1	1	1	4	2	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
	7	7	7	8	8	8	2	2	2	2	2	2	2	6	6	6	6	0	0	0	0	0	3	3	3
	7	8	9	0	1	2	0	1	2	3	4	5	2	3	4	5	6	3	4	5	6	7	3	4	5
	<b>*TOTALS</b>																								

**Musculoskeletal System**

Bone + 25

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cortex, Cyst				X											X	X				X						4
Epithelium, Pelvis, Hyperplasia																								2		1 2.0
Hyaline Droplet		1		1										1	1											4 1.0
Infiltration Cellular, Lymphocyte	1	1		1	1	1					2					1	1			1	1	1	1	2		13 1.2
Interstitialium, Fibrosis											1												2			2 1.5
Renal Tubule, Dilatation				1			1	2						1			2									5 1.4
Renal Tubule, Mineralization						1																				1 1.0
Renal Tubule, Regeneration	1	1		1	1		1	1			1	1					1	1		1						11 1.0

\*\*\*END OF MALE DATA\*\*\*

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:27  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F0 CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	8	8	8	8	8	9	9	9	9	0	0	0	0	0	0	3	3	3	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	1	2	2	2	5	5	6	6	6	9	0	0	0	3	4	4	4	4	7	8	8	8	
		8	9	1	2	3	8	9	0	1	2	9	0	1	2	3	9	0	1	2	3	9	0	1	

**Alimentary System**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Developmental Malformation				X											X					X					3
Fatty Change, Focal											2														1 2.0
Inflammation, Chronic Active							1				1	1											1		4 1.0

**Cardiovascular System**

NONE

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Accessory Adrenal Cortical Nodule																				X					1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst																				X					1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25

**General Body System**

NONE

**Genital System**

Clitoral Gland													+	+											2
Distended													X	X											2
Inflammation, Chronic Active													3	3											2 3.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked













Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:28  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F0 2.0 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	
	0	0	0	0	0	8	8	8	8	8	9	9	9	9	0	0	0	0	0	0	3	3	3	3	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	2	6	6	6	6	6	0	0	0	0	4	4	4	4	4	8	8	8	8	8	
	0	4	5	6	7	3	4	5	6	7	4	5	6	7	8	4	5	6	7	8	4	5	6	7	8
	<b>*TOTALS</b>																								

**Musculoskeletal System**

NONE

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Cortex, Cyst			X															X				X			3	
Infarct								X																	1	
Inflammation, Chronic Active																							1		1 1.0	
Renal Tubule, Degeneration, Focal								4																	1 4.0	
Renal Tubule, Mineralization	1		1	1	3	1	2	1		2	1	1	1	1	1		1	1	3	2	1	1	1	4	4	22 1.6

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:28  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F0 10 PPB**

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	
	0	0	0	0	0	8	8	8	8	8	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	3	3	3	6	6	7	7	7	0	1	1	1	1	4	5	5	5	5	5	8	9	9	9	
	8	9	0	1	2	8	9	0	1	2	9	0	1	2	3	9	0	1	2	3	8	9	0	1	3	<b>*TOTALS</b>
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Diestrus	X	X			X							X		X	X				X			X	X			9
Endometrial GI, Hyperplasia																						1				1 1.0
Estrus				X					X	X	X									X				X		6
Metestrus						X	X										X									3
Proestrus			X					X					X			X	X			X				X		7
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Diestrus	X	X			X							X		X	X											6
Estrus				X					X	X	X										X			X		6
Metestrus						X	X											X								3
Proestrus			X					X					X			X	X		X	X		X	X	X		10
<b>Hematopoietic System</b>																										
NONE																										
<b>Integumentary System</b>																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Alveolus, Hyperplasia													1	1										1		3 1.0
Skin	+																									1
<b>Musculoskeletal System</b>																										
NONE																										
<b>Nervous System</b>																										
NONE																										

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
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 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked





Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:29  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F0 50 PPB**

DAY ON TEST	ANIMAL ID																								*TOTALS	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5		
	0	0	0	0	0	8	8	8	8	8	9	9	9	9	9	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	3	3	3	3	3	7	7	7	7	7	1	1	1	1	1	5	5	5	5	5	5	9	9	9		
	3	4	5	6	7	3	4	5	6	7	4	5	6	7	8	4	5	6	7	8	4	5	6	7		
Metestrus																X									1	
Proestrus														X	X		X		X	X			X		6	
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus							X			X	X	X	X												5	
Estrus	X	X	X	X	X			X	X								X			X	X	X		X	12	
Metestrus															X										1	
Proestrus						X							X	X		X		X	X				X		7	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus						X	X			X	X	X	X												6	
Epithelium, Hyperplasia				2																					1	2.0
Estrus	X	X		X	X			X	X							X			X			X			9	
Metestrus															X					X	X		X		4	
Proestrus													X	X			X	X					X		5	
<b>Hematopoietic System</b>																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Pigmentation			2			2						2			1							1	1		6	1.5
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
<b>Integumentary System</b>																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Alveolus, Hyperplasia							1		1			1				1									4	1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked





Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:29  
 First Dose M/F: NA / NA  
 Lab: NCTR

DAY ON TEST	ANIMAL ID																								*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CD Rat Female	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	25
F1 Control	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6	25
	1	1	1	1	0	1	1	1	1	0	1	1	1	1	2	9	2	2	2	2	2	2	2	2	25
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
	4	4	4	4	4	8	8	8	8	8	8	8	8	2	2	2	3	6	7	7	7	7	1	1	1
	4	5	6	7	8	5	6	7	8	9	7	8	9	0	9	0	1	2	3	1	2	3	4	5	6

**Alimentary System**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Developmental Malformation											X														1
Inflammation, Chronic Active			1									1				1			1	1					5 1.0

**Cardiovascular System**

NONE																									
<b>Endocrine System</b>																									
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Ultimobranchial Cyst															X						X				2

**General Body System**

NONE																									
<b>Genital System</b>																									
Clitoral Gland																							+		1
Distended																							X		1
Inflammation, Chronic Active																							2		1 2.0
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Corpus Luteum, Cyst																							X		1

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 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:29  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 Control	DAY ON TEST																								*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6	
	1	1	1	1	0	1	1	1	1	0	1	1	1	1	2	9	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	
	4	4	4	4	4	8	8	8	8	8	2	2	3	6	7	7	7	7	1	1	1	1	1	1	
	4	5	6	7	8	5	6	7	8	9	7	8	9	0	9	0	1	2	3	1	2	3	4	5	6
Diestrus		X				X	X	X		X						X	X		X				X	9	
Estrus			X	X									X	X										4	
Follicle, Cyst																			X					1	
Metestrus									X		X	X						X				X		5	
Proestrus	X				X							X			X				X	X		X		7	
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus		X				X	X	X		X							X	X		X			X	9	
Estrus			X	X									X	X										4	
Metestrus								X		X	X							X				X		5	
Proestrus	X				X							X			X				X	X		X		7	
Vagina	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	24	
Diestrus		X				X	X	X		X							X	X		X			X	10	
Estrus				X								X	X	X										4	
Metestrus			X					X		X								X						4	
Proestrus	X				X									X					X	X		X		6	
<b>Hematopoietic System</b>																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Pigmentation													1					1						2 1.0	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
<b>Integumentary System</b>																									

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:29  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F1 Control	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mammary Gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	
Alveolus, Hyperplasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5 1.2	
<b>Musculoskeletal System</b>	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4		
Bone	4	4	4	4	4	8	8	8	8	8	2	2	2	3	6	7	7	7	7	1	1	1	1	1	25	
<b>Nervous System</b>	4	5	6	7	8	5	7	8	9	7	8	9	0													
NONE																										
<b>Respiratory System</b>																										
NONE																										
<b>Special Senses System</b>																										
NONE																										
<b>Urinary System</b>																										
Kidney																									25	
Pelvis, Dilatation																									1 3.0	
Renal Tubule, Mineralization																									21 1.9	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:29  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 2.0 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	2	2	2	1	1	2	2	2	2	2	3	3	3	2	2	3	3	3	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4
	4	5	5	5	5	9	9	9	9	9	3	3	3	3	3	3	7	7	7	7	1	1	1	2	2
	9	0	1	2	3	0	1	2	3	4	1	2	3	4	5	6	4	5	6	7	8	7	8	9	0
																								<b>*TOTALS</b>	

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

Thyroid Gland

+ 1

Ectopic Thymus

X 1

**General Body System**

NONE

**Genital System**

Clitoral Gland

+ + 2

Distended

X X 2

Inflammation, Chronic Active

3 3 2 3.0

Ovary + 25

Diestrus X 6

Estrus X 2

Metestrus X 7

Proestrus X 10

Oviduct + 25

Uterus + 25

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:30  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 2.0 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	2	2	2	1	1	2	2	2	2	2	3	3	3	2	2	3	3	3	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4
	4	5	5	5	5	9	9	9	9	9	3	3	3	3	3	7	7	7	7	7	7	1	1	1	2
	9	0	1	2	3	0	1	2	3	4	1	2	3	4	5	6	4	5	6	7	8	7	8	9	0
																								<b>*TOTALS</b>	

**Special Senses System**

NONE

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cortex, Cyst										X								X				X			3
Infarct																						X			1
Pelvis, Dilatation											4														1 4.0
Renal Tubule, Mineralization		2	1	1	2	3	1	1	1	1	1				4	4	1	4	2	2			3	2	18 2.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked





Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:30  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 10 PPB**

	DAY ON TEST																											
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
	1	1	1	1	1	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0			
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4			
	5	5	5	5	5	9	9	9	9	9	3	3	3	4	4	7	8	8	8	8	2	2	2	2	2			
	4	5	6	7	8	5	6	7	8	9	3	8	9	0	1	9	0	1	2	3	2	2	3	4	5			
																										<b>*TOTALS</b>		
Estrus					X	X	X					X					X											6
Metestrus											X					X	X					X	X	X	6			
Proestrus			X				X							X	X					X	X	6						
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Diestrus	X				X											X	X	X						5				
Estrus						X	X	X					X					X					X	6				
Metestrus									X	X	X					X	X					X	X	X	8			
Proestrus			X	X				X					X					X						6				
<b>Hematopoietic System</b>																												
NONE																												
<b>Integumentary System</b>																												
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Alveolus, Hyperplasia				1							2			1	1	1											5	1.2
<b>Musculoskeletal System</b>																												
NONE																												
<b>Nervous System</b>																												
NONE																												
<b>Respiratory System</b>																												
NONE																												

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:30  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 50 PPB**

DAY ON TEST	ANIMAL ID																								*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
	1	0	0	0	0	1	1	1	1	0	1	1	1	1	1	2	2	2	2	2	2	2	1		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4		
	5	6	6	6	6	0	0	0	0	0	4	4	4	4	4	8	8	8	8	8	2	2	2		
	9	0	1	2	3	0	1	2	3	4	2	3	4	5	6	4	5	6	7	8	6	7	8		
Corpus Luteum, Cyst								X															1		
Cyst																						X		1	
Diestrus				X		X	X		X		X	X	X		X			X		X	X			11	
Estrus													X						X		X			3	
Hyperplasia, Sertoliform			1												1	2								3 1.3	
Metestrus		X			X											X								3	
Proestrus	X		X					X		X					X		X					X	X	8	
Rete Ovarii, Dilatation										2														1 2.0	
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus				X		X	X		X		X	X	X		X				X		X	X		11	
Estrus													X						X		X			3	
Metestrus		X			X											X								3	
Proestrus	X		X					X		X					X		X					X	X	8	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus				X		X	X		X		X	X	X		X				X		X	X		11	
Estrus			X						X				X		X				X		X			6	
Metestrus		X			X											X								3	
Proestrus	X							X									X					X	X	5	
<b>Hematopoietic System</b>																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 X ..Lesion present  
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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:31  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F2 CONTROL**

	DAY ON TEST																									*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Ovary	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	25	
Cyst	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Diestrus	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	12	
Estrus	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	
Metestrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Proestrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Oviduct	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	25	
Uterus	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	25	
Diestrus	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	10	
Estrus	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	4	
Metestrus	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	
Proestrus	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	11	
Estrus																									6	
Metestrus																									3	
Proestrus																									5	
<b>Hematopoietic System</b>																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Pigmentation																									1	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:31  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F2 CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	1	1	1	1	1	2	2	1	1	1	1	1	1	2	1	1	1	2	2	1	5	4	3	5	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	
	7	7	7	7	7	7	1	2	2	2	2	2	2	2	6	6	6	6	6	0	0	5	5	5	6	7
	4	5	6	7	8	9	9	0	1	2	2	3	4	5	6	7	8	9	2	3	4	9	0	0	0	
																								<b>*TOTALS</b>		

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Alveolus, Hyperplasia	3				2		1	1	2	3	1		2		2	2	2	1	2		1					14	1.8
Lobules, Hyperplasia	1							1	2	1	1		1				1									7	1.1

**Musculoskeletal System**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Cortex, Cyst							X							X	X											3	
Renal Tubule, Mineralization			2		1	2		1	1		1	2		1	3	3	3	2	1	1		1	1	2	1	18	1.6

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked





Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
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 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F2 2.0 PPB**

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	1	1	1	1	1	0	0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	
	8	8	8	8	8	8	8	8	2	2	2	2	3	3	3	3	6	7	7	7	1	1	1	5	7	
	0	1	2	3	4	5	6	7	6	7	8	9	0	1	2	3	9	0	1	2	0	1	2	5	1	
																										<b>*TOTALS</b>
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus		X	X		X	X		X	X	X		X	X		X	X						X			12	
Estrus							X				X				X					X					4	
Metestrus	X			X								X				X				X			X		6	
Proestrus																	X	X					X		3	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus		X	X		X	X		X	X	X		X	X		X	X						X			12	
Estrus							X				X				X					X					4	
Metestrus	X			X								X				X				X			X		6	
Mucocyte, Hyperplasia					3							1													2 2.0	
Proestrus																		X	X				X		3	
<b>Hematopoietic System</b>																										
NONE																										
<b>Integumentary System</b>																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Alveolus, Hyperplasia	1			3	1	1	2	2	1	2	1	1		2	1	2				1	1				15 1.5	
Lobules, Hyperplasia				3				2		2	1	1	1	2	2	2			2						10 1.8	
<b>Musculoskeletal System</b>																										
NONE																										
<b>Nervous System</b>																										

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

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

**CD Rat Female  
 F2 50 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	2	2	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	4	4	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
	9	9	9	3	4	4	4	4	8	8	8	8	8	2	2	2	2	2	2	2	2	3	5	5	5
	1	2	3	9	0	1	2	3	2	3	4	5	6	1	2	3	4	5	6	7	8	9	0	7	8
																								<b>*TOTALS</b>	

**Alimentary System**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Clear Cell Focus									X																1

**Cardiovascular System**

NONE																								
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**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst			X																						1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Ultimobranchial Cyst									X																1

**General Body System**

NONE																								
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Genital System**

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Diestrus			X	X					X	X			X	X			X							X	8
Estrus					X					X	X			X	X										5
Metestrus	X					X	X										X	X							5
Proestrus		X		X				X											X	X	X	X			7

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**CD Rat Female  
 F2 50 PPB**

	DAY ON TEST																									*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	1	1	2	2	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	4	4	4	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	
	9	9	9	3	4	4	4	4	8	8	8	8	8	2	2	2	2	2	2	2	2	3	5	5	5	
	1	2	3	9	0	1	2	3	2	3	4	5	6	1	2	2	3	4	5	6	7	8	9	0	0	
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus			X	X					X	X				X	X				X					X	8	
Estrus						X					X	X				X	X								5	
Metestrus	X						X	X										X	X						5	
Proestrus		X			X					X										X	X	X	X		7	
Vagina	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	23	
Diestrus			X						X	X				X	X				X					X	7	
Estrus					X				X	X	X					X	X						X		7	
Metestrus	X						X											X	X						4	
Proestrus		X			X															X	X	X			5	
<b>Hematopoietic System</b>																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Pigmentation														1											1 1.0	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
<b>Integumentary System</b>																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Alveolus, Hyperplasia	2	1	2	1		2				2	1	2	1							1		2			11 1.5	
Lobules, Hyperplasia	2	1	1	3	1	1		1		3	1	1				1				2		1			13 1.5	
<b>Musculoskeletal System</b>																										

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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**CD Rat Female  
 F2 50 PPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	1	1	2	2	2	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	4	4		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	
	9	9	9	3	4	4	4	4	8	8	8	8	8	2	2	2	2	2	2	2	2	3	5	5	5	
	1	2	3	9	0	1	2	3	2	3	4	5	6	1	2	3	4	5	6	7	8	0	7	8	8	
	<b>*TOTALS</b>																							25		
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
<b>Nervous System</b>																										
NONE																										
<b>Respiratory System</b>																										
NONE																										
<b>Special Senses System</b>																										
NONE																										
<b>Urinary System</b>																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cortex, Cyst						X																X				2
Inflammation, Chronic Active						1																				1 1.0
Renal Tubule, Mineralization	1	1		3	1	1		2	3	1	1			1			1	3	2		1			1	15 1.5	

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 Lab: NCTR

**CD Rat Female  
 F3 CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	1	1	1	1	2	1	1	1	1	1	2	2	1	1	1	1	2	2	2	1	1	5	5	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	
	0	0	1	1	1	5	5	5	5	5	5	9	9	9	0	0	0	4	4	4	4	4	9	9	
	8	9	0	1	2	3	4	5	6	7	8	7	8	9	0	1	2	2	3	4	5	6	0	1	2
	<b>*TOTALS</b>																								

**Alimentary System**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Developmental Malformation				X																					1

**Cardiovascular System**

NONE

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst											X												X	2	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25

**General Body System**

NONE

**Genital System**

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Corpus Luteum, Cyst											X														1
Cyst					X													X							2
Diestrus			X	X		X		X			X		X	X		X					X		X		10
Estrus					X		X									X				X			X		5
Metestrus	X								X	X					X			X		X					6

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CD Rat Female F3 CONTROL	DAY ON TEST																								*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Proestrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Oviduct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Uterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Diestrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Estrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Metestrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Proestrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Vagina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Diestrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Estrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Metestrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Proestrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
<b>Hematopoietic System</b>																									
Bone Marrow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Pigmentation																									1 4.0
Spleen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Congestion																									1 3.0
Pigmentation																									4 1.3
Thymus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
<b>Integumentary System</b>																									
Mammary Gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Alveolus, Hyperplasia																									9 1.7

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:33  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3 CONTROL**

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
	1	1	1	1	1	2	1	1	1	1	1	2	2	1	1	1	1	2	2	1	1	5	5	5		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8		
	0	0	1	1	1	5	5	5	5	5	5	9	9	9	0	0	0	4	4	4	4	4	9	9		
	8	9	0	1	2	3	4	5	6	7	8	7	8	9	0	1	2	2	3	4	5	6	0	1	2	<b>*TOTALS</b>
Lactation					X		X																		2	
Lobules, Hyperplasia			2	1		2	4			1							1						1		7 1.7	
<b>Musculoskeletal System</b>																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
<b>Nervous System</b>																										
NONE																										
<b>Respiratory System</b>																										
NONE																										
<b>Special Senses System</b>																										
NONE																										
<b>Urinary System</b>																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Cortex, Cyst				X					X					X											3	
Renal Tubule, Mineralization	1		1	1	1		1	1	2	2	1	1		1	1	1	1	2	1	1	1		2	19 1.2		

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:33  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/2PPB TO CTRL**

	DAY ON TEST																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	3	4	5	6	7	8	9	0	1	2	3	4	3	4	5	6	7	8	9	0	1	2	3	4	
																									<b>*TOTALS</b>
Diestrus		X	X							X					X	X	X	X		X		X			
Estrus					X	X		X			X														
Metestrus				X								X	X					X		X					
Proestrus	X						X			X	X											X	X	X	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Diestrus		X	X						X					X	X	X	X		X						
Estrus					X		X			X														X	
Metestrus				X		X						X	X					X		X					
Mucocyte, Hyperplasia																			1						
Proestrus	X						X			X	X										X	X	X		
<b>Hematopoietic System</b>																									
NONE																									
<b>Integumentary System</b>																									
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Alveolus, Hyperplasia	1					4					1						1								
Lactation				X																					
Lobules, Hyperplasia	2					3					1					1									
<b>Musculoskeletal System</b>																									
NONE																									
<b>Nervous System</b>																									
NONE																									

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:33  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/10PPB TO CTRL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	9	9	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	1	2	2	2	2	6	6	6	6	6	0	0	1	1	1	5	5	5	5	5	5	9	9	9
	9	0	1	2	3	5	6	7	8	9	8	9	0	1	2	3	4	5	6	7	8	5	6	7
																							<b>*TOTALS</b>	

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	24
Diestrus					X									X		X									3
Estrus						X	X			X								X		X					5
Hyperplasia, Sertoliform										1															1 1.0
Metestrus	X		X						X	X	X				X						X				7
Proestrus		X		X				X				X		X			X			X		X	X		9
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	24
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Diestrus					X									X		X			X						4
Estrus						X	X			X								X		X					5
Metestrus	X		X						X		X				X							X			6

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:33  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/10PPB TO CTRL**

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	1	1	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	1	2	2	2	2	6	6	6	6	6	0	0	1	1	1	5	5	5	5	5	5	9	9	9	9	
	9	0	1	2	3	5	6	7	8	9	0	1	1	2	3	4	5	6	7	8	9	5	6	7	8	
																										<b>*TOTALS</b>
Proestrus		X		X					X			X		X		X		X		X		X	X		10	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus					X								X		X										3	
Estrus						X	X					X	X					X			X			X	7	
Metestrus	X		X						X	X	X				X							X			7	
Proestrus		X		X				X		X							X	X	X				X		8	
<b>Hematopoietic System</b>																										
NONE																										
<b>Integumentary System</b>																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Alveolus, Hyperplasia		4	2	1		2	2	1	2	1		1				1					1				11 1.6	
Lactation									X																1	
Lobules, Hyperplasia		3	1			1	1		1				1												6 1.3	
<b>Musculoskeletal System</b>																										
NONE																										
<b>Nervous System</b>																										
NONE																										
<b>Respiratory System</b>																										
NONE																										

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:33  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/10PPB TO CTRL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	1	2	2	2	2	6	6	6	6	6	0	0	1	1	1	5	5	5	5	5	5	9	9	9	9
	9	0	1	2	3	5	6	7	8	9	8	9	0	1	1	2	3	4	5	6	7	8	5	6	8
																								<b>*TOTALS</b>	

**Special Senses System**

NONE

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cortex, Cyst				X																		X	X		3
Hydronephrosis																						1			1 1.0
Infarct											X							X							2
Renal Tubule, Mineralization	2		3	1	1	1	1	2	1		1	2	1		1	2	2		1	1			1	1	18 1.4

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/50PPB TO CTRL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8
	2	2	2	2	2	2	7	7	7	7	7	7	1	1	1	1	1	5	6	6	6	6	6	9
	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	9	
	<b>*TOTALS</b>																							

**Alimentary System**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Inflammation, Chronic Active																	1	1						2 1.0

**Cardiovascular System**

NONE

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Keratin Cyst										X												X		2

**General Body System**

NONE

**Genital System**

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Diestrus			X								X	X									X			4
Estrus				X	X		X						X	X									X	6
Metestrus								X	X								X			X				4
Proestrus	X		X			X				X	X			X	X		X			X	X			11
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
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 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/50PPB TO CTRL**

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	1	1	1	0	0	1	1	1	1	1	0	1	1	1	1	1	1	2	2	2	2	1	1	5	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	2	2	2	2	2	2	7	7	7	7	7	7	1	1	1	1	1	1	5	6	6	6	6	6	6	
	4	5	6	7	8	9	0	1	2	3	4	5	3	4	5	6	7	8	9	0	1	2	3	4	9	
																										<b>*TOTALS</b>
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus		X										X								X					3	
Estrus				X	X		X							X	X								X		6	
Metestrus								X	X		X							X			X				5	
Proestrus	X		X			X				X			X	X			X	X		X			X	X	11	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus			X						X				X								X				4	
Estrus				X	X		X								X									X	5	
Metestrus									X	X					X			X			X				5	
Proestrus	X		X			X				X			X	X			X	X		X			X	X	11	
<b>Hematopoietic System</b>																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Pigmentation																								2	1 2.0	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
<b>Integumentary System</b>																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Alveolus, Hyperplasia	1	1			1	2				1			2				1					2	1		9 1.3	
Lobules, Hyperplasia					1	2	1		3	1	1				1							2			8 1.5	
Skin																									1	
Inflammation, Chronic, Focal																								2	1 2.0	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F4 CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	1	1	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		6	6	6	6	5	6	6	6	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	
		1	1	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
		4	4	4	4	4	8	8	8	8	2	2	2	2	6	6	6	7	7	7	0	0	1	3	
		0	1	2	3	4	3	4	5	6	7	6	7	8	9	7	8	9	0	1	2	8	9	0	6

**Alimentary System**

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Developmental Malformation																							X		1

**Cardiovascular System**

NONE

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Bilateral, Keratin Cyst											X														1
Keratin Cyst														X											1

**General Body System**

NONE

**Genital System**

Clitoral Gland				+										+										+	3
Distended				X										X										X	3
Inflammation, Chronic Active				3										3										3	3 3.0
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst																				X	X				2

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F4 CONTROL	DAY ON TEST																								*TOTALS	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
ANIMAL ID	6	6	6	6	5	6	6	6	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
	1	1	0	0	9	0	0	0	9	9	0	0	0	0	0	0	0	0	0	0	2	2	2	5	4	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	
	4	4	4	4	4	8	8	8	8	8	2	2	2	2	6	6	6	7	7	7	7	0	0	1	3	3
	0	1	2	3	4	3	4	5	6	7	6	7	8	9	7	8	9	0	1	2	8	9	0	1	6	7
Diestrus	X		X	X	X			X																X		6
Estrus						X	X			X	X			X						X		X				7
Follicle, Cyst																							X			1
Metestrus											X				X							X		X		4
Proestrus		X							X				X		X	X		X	X		X					8
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Diestrus			X	X	X			X																X		5
Estrus						X	X			X	X			X						X		X				7
Metestrus	X										X						X						X		X	5
Proestrus		X							X				X		X	X		X	X		X					8
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Diestrus	X		X	X	X			X																		5
Estrus						X	X			X	X			X						X		X				8
Metestrus											X						X						X	X	X	5
Proestrus		X							X				X		X			X	X		X					7
<b>Hematopoietic System</b>																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
<b>Integumentary System</b>																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F4 CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	1	1	0	0	9	0	0	0	9	9	0	0	0	1	0	0	0	0	2	2	2	5	4	
Alveolus, Hyperplasia		1		1	1	2	2	2	1		1			2						3	3			11	1.7
Lobules, Hyperplasia					1				1											1	1			4	1.0
<b>Musculoskeletal System</b>																									
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
<b>Nervous System</b>																									
NONE																									
<b>Respiratory System</b>																									
NONE																									
<b>Special Senses System</b>																									
NONE																									
<b>Urinary System</b>																									
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Cortex, Cyst					X				X															2	
Renal Tubule, Mineralization		1	2	1		1	1	2	2	2	3	1	1	1	1	1	2	3	2	1	1	1	1	24	1.5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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 M ..Missing tissue  
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Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F4/2PPB TO CTRL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	8	8	9	9	9	9	9	3	3	3	3	3	3	7	7	7	7	1	1	1
	5	6	7	8	9	8	9	0	1	2	3	0	1	2	3	4	5	3	4	5	6	7	1	2	3
	<b>*TOTALS</b>																								

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Cyst															X										1	
Diestrus			X									X						X		X			X	X	X	7
Estrus	X		X	X	X			X	X		X	X					X			X	X				11	
Metestrus						X			X					X											3	
Proestrus						X							X		X			X							4	
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus			X									X						X					X	X	X	6
Estrus	X		X	X	X			X	X		X	X				X				X	X				11	
Metestrus						X			X					X					X						4	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F4/2PPB TO CTRL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	4	4	4	4	4	8	8	9	9	9	3	3	3	3	3	7	7	7	7	7	7	7	1	1	1
	5	6	7	8	9	8	8	9	0	1	2	3	3	3	4	5	3	4	5	6	7	7	1	2	3
	<b>*TOTALS</b>																								

NONE																									
<b>Urinary System</b>																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Nephropathy																									1 1.0
Renal Tubule, Mineralization	2	1	1	1	1		1	1		2	1				1	1	3	2	1	1	1	1	1	1	19 1.3

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F4/10PPB TO CTR	DAY ON TEST																								*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
ANIMAL ID	3	1	1	0	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
	1	5	5	5	5	5	9	9	9	9	3	3	3	4	4	4	7	7	8	8	8	8	8	8	
	5	0	1	2	3	4	4	5	6	7	8	6	7	8	9	0	1	1	1	1	1	1	1	1	
Proestrus	X	X			X		X	X			X						X	X	X	X	X		X	12	
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Diestrus			X			X			X	X				X	X							X		7	
Estrus				X									X											2	
Metestrus								X				X			X						X		X	5	
Proestrus	X	X			X		X	X			X						X	X	X	X	X		X	12	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Diestrus			X			X			X	X				X	X							X		7	
Estrus				X			X						X							X				4	
Metestrus								X			X			X							X		X	5	
Proestrus	X	X			X		X				X						X	X	X		X		X	10	
<b>Hematopoietic System</b>																									
Bone Marrow	+																							1	
Lymph Node	+																							1	
Lymph Node, Mandibular	+																							1	
Spleen	+								+															2	
Thymus	+																							1	
<b>Integumentary System</b>																									
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Alveolus, Hyperplasia				1		2	1	1	1				1	1										7 1.1	
Lobules, Hyperplasia						1		2																2 1.5	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically  
 1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked









Experiment Number: 99920-91  
 Test Type: MULTIGEN CHRONIC  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:17:36  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F4/50PPB TO CTRL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	0	0	0	1	1	1	0	0	1	1	1	0	0	1	1	1	1	1	4	4	2	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
	5	5	5	5	5	6	9	0	0	0	4	4	4	4	4	8	8	8	8	8	1	1	1	2	
	5	6	7	8	9	0	9	0	1	2	3	2	3	4	5	6	4	5	6	7	8	7	8	9	0
																								<b>*TOTALS</b>	

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cortex, Cyst			X			X																			2
Nephropathy										1			1												2 1.0
Renal Tubule, Mineralization	1	1	2	1	1		1	1		1	2	1	1			1	3	1	2		2	1	1	1	19 1.3

**\*\* END OF REPORT \*\***

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked