

**Experiment Number:** 99920-93  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014

**Time Report Requested:** 11:56:31

**First Dose M/F:** NA / NA

**Lab:** NCTR

<b>C Number:</b>	MG96006
<b>Lock Date:</b>	12/02/2008
<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 F3 OPPB	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	0	0	0	0
		1	4	4	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		5	2	2	2	2	6	8	9	9	0	3	4	4	6	7	0	0	0	4	4	4	4	5	5	5	4	4	4
		4	2	9	1	7	2	5	0	9	1	0	6	9	0	3	0	3	2	1	3	9	9	9	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	1	1	2	2	3	3	3	4	4	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	
		2	1	1	4	5	2	7	8	0	5	1	2	3	3	4	6	6	7	0	1	1	1	1	2	4	4	5	
		1	4	9	6	8	5	5	5	3	2	4	0	0	2	5	6	7	0	9	0	1	2	9	0	4	9	0	

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	A	+	+	A	+	+	+	+	+	+	+	A	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	A	+	+	A	+	+	+	+	+	+	+	A	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Adenoma				X																								
Intestine Large, Rectum	A	+	+	A	+	+	+	+	+	+	+	A	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	A	+	A	A	+	+	+	+	+	+	+	A	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Adenocarcinoma									X																			
Intestine Small, Ileum	A	+	A	A	+	+	+	+	+	+	+	A	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	A	+	+	A	+	+	+	+	+	+	+	A	A	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+
Liver	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cholangiocarcinoma				X																								
Cholangioma																												
Hepatocellular Adenoma																												
Mesentery									+		+																	
Oral Mucosa																												
Squamous Cell Carcinoma																												
Pancreas	A	+	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	A	+	A	+	+	+	+	+	+	I	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	A	+	A	A	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**Cardiovascular System**

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically









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 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:32  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F3 OPPB**

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

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Adenoma																			2
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Adenocarcinoma																			2
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Cholangiocarcinoma																			2
Cholangioma	X																		1
Hepatocellular Adenoma																			1
Mesentery										+									4
Oral Mucosa																			3
Squamous Cell Carcinoma																			3
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45

**Cardiovascular System**

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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 Lab: NCTR

CD Rat Male F3 OPPB	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		5	5	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	
		0	0	9	9	9	9	3	2	4	5	5	5	5	5	4	3	2	5	
		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	
		9	9	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	
		9	9	0	0	0	1	3	4	5	9	0	0	0	0	1	2	2	2	
		4	5	2	3	9	0	7	9	3	9	2	5	6	7	8	9	9	1	
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Endocrine System</b>																				
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma																		X		1
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pheochromocytoma Benign							X		X										X	4
Pheochromocytoma Malignant																				1
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma																				2
Parathyroid Gland		+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adenoma																				1
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pars Distalis, Adenoma		X	X	X	X					X	X	X	X	X	X		X		X	24
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
C Cell, Carcinoma		X																		3
<b>General Body System</b>																				
NONE																				
<b>Genital System</b>																				
Coagulating Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

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**F3 OPPB**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	5	5	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	
	0	0	9	9	9	9	3	2	4	5	5	5	5	5	4	3	2	5	
	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	
	9	9	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	
	9	9	0	0	0	1	3	4	5	9	0	0	0	0	0	1	2	2	
	4	5	2	3	9	0	7	9	3	9	2	5	6	7	8	9	9	0	*TOTALS
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Squamous Cell Carcinoma																			2
Prostate, Dorsal/Lateral Lobe			+	+										+					50
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Lymph Node	+				+				+	+		M			+	+		+	14
Lymph Node, Mandibular	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Thymus	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	47
<b>Integumentary System</b>																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Fibroma														X					1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basal Cell Adenoma			X				X												2
Sarcoma																			1
<b>Musculoskeletal System</b>																			

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**CD Rat Male  
 F3 OPPB**

DAY ON TEST	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		
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	5	5	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4		
	0	0	9	9	9	9	3	2	4	5	5	5	5	5	5	4	3	2	5	
	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	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	
	9	9	0	0	0	1	3	4	5	9	0	0	0	0	0	1	2	2	2	
	4	5	2	3	9	0	7	9	3	9	2	5	6	7	8	9	9	0	1	<b>*TOTALS</b>
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Skeletal Muscle																				3
<b>Nervous System</b>																				
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Osteoma																				1
Peripheral Nerve																				2
Spinal Cord																				0
<b>Respiratory System</b>																				
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
<b>Special Senses System</b>																				
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Retrolbulbar, Squamous Cell Carcinoma, Deep Invasion																				1
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Lacrimal Gland																				1
Zymbal's Gland																				1
Carcinoma																				1

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 F3 OPPB**

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

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Urethra	+																			3
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																				2

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 Lab: NCTR

CD Rat Male  
 F3/2PPB TO CTL

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

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	48
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Small, Ileum	+	+	A	A	+	A	+	+	+	+	A	+	+	+	+	+	+	+	38
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	41
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																			1
Oral Mucosa														+					8
Squamous Cell Carcinoma																			4
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																			1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Squamous Cell Carcinoma																			1
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

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

	DAY ON TEST																	*TOTALS		
	0 7 4 9	0 7 4 9	0 7 5 3	0 7 5 2	0 7 5 2	0 7 5 2	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 5	0 7 5 5	0 7 5 5	0 7 5 5	0 7 5 9		0 7 4 7	
ANIMAL ID	0 1 0 0 7	0 1 0 0 8	0 1 0 4 3	0 1 0 4 4	0 1 0 4 7	0 1 0 4 8	0 1 0 5 4	0 1 0 5 5	0 1 0 5 5	0 1 0 5 5	0 1 0 5 5	0 1 0 5 6	0 1 0 5 6	0 1 0 6 6	0 1 0 6 6	0 1 0 6 9	0 1 0 0 3	0 1 0 0 4	0 1 0 1 5	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Endocardium, Schwannoma Malignant																				1
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																				1
<b>Endocrine System</b>																				
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma																				1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	48
Pheochromocytoma Benign													X							4
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma																				1
Parathyroid Gland	M	+	+	+	+	M	M	+	M	+	+	+	+	+	+	+	+	+	+	44
Adenoma																				1
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Pars Distalis, Adenoma		X	X		X	X	X			X				X	X	X	X			20
Pars Intermed, Adenoma																				1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Follicular Cel, Adenoma						X														1
<b>General Body System</b>																				
NONE																				
<b>Genital System</b>																				

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

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

	DAY ON TEST																		*TOTALS
	0 7 4 9	0 7 4 9	0 7 5 3	0 7 5 2	0 7 5 2	0 7 5 2	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 4	0 7 5 9	0 7 4 7	
ANIMAL ID	0 1 0 0 7	0 1 0 0 8	0 1 0 4 3	0 1 0 4 4	0 1 0 4 7	0 1 0 4 8	0 1 0 5 4	0 1 0 5 5	0 1 0 5 5	0 1 0 5 5	0 1 0 5 6	0 1 0 5 6	0 1 0 6 6	0 1 0 6 7	0 1 1 0 3	0 1 1 0 4	0 1 1 0 5	0 1 1 1 6	
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																		1	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Carcinoma																		1	
Squamous Cell Carcinoma													X					3	
Prostate, Dorsal/Lateral Lobe			+	M												+		48	
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																		1	
Prostate, Ventral Lobe	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	45	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Interstitial Cell, Adenoma																		1	
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																		1	
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Lymph Node		+			+			+	+					+		+		16	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

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

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

Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																		1	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																		1	
Thymus	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																		1	
<b>Integumentary System</b>																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Fibroadenoma																X	2		
Fibroma				X															1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Keratoacanthoma				X															2
Lipoma																		2	
<b>Musculoskeletal System</b>																			
Bone																		1	
Cranium, Squamous Cell Carcinoma, Deep Invasion																		1	
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Skeletal Muscle																		4	
Diaphragm, Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																		1	

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

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

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

**Nervous System**

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Peripheral Nerve																			4
Spinal Cord																			0

**Respiratory System**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																			1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

**Special Senses System**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Lacrimal Gland																			1

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Sarcoma																			1
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach																			1

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

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

DAY ON TEST	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	
	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	
	9	9	3	2	2	2	4	4	4	4	4	5	5	5	5	5	9	7	
ANIMAL ID	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	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
	0	0	4	4	4	4	5	5	5	5	5	6	6	6	0	0	1	1	
	7	8	3	4	7	8	4	5	6	7	8	6	7	9	3	4	5	6	<b>*TOTALS</b>
Urethra																			1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
<b>SYSTEMIC LESIONS</b>																			
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Leukemia Mononuclear																			1
Lymphoma Malignant																			1

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically













Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:36  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3/10PPBTO CTL**

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

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma																			1
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Anus, Sarcoma																			1
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cholangioma										X									1
Mesentery		+			+					+	+							+	6
Squamous Cell Carcinoma, Metastatic, Uncertain Primary Site																		X	1
Oral Mucosa				+															4
Squamous Cell Carcinoma																			1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47

**Cardiovascular System**

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:36  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male F3/10PPBTO CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
		3	3	3	3	4	4	4	4	4	4	4	5	5	5	5	4	4	4	
		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	
		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	
		3	3	3	3	6	6	6	6	6	7	9	9	0	0	1	1	1	1	
		0	5	6	9	1	2	3	4	5	8	0	7	8	0	1	0	1	7	
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Endocrine System</b>																				
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma				X																1
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Bilateral, Pheochromocytoma Benign																				1
Pheochromocytoma Benign																				5
Pheochromocytoma Malignant															X					2
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma					X			X												3
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pars Distalis, Adenoma				X		X		X	X				X		X		X			18
Pars Intermed, Adenoma										X										1
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C Cell, Adenoma																				1
C Cell, Carcinoma						X					X									3
<b>General Body System</b>																				
NONE																				
<b>Genital System</b>																				

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:37  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3/10PPBTO CTL**

DAY ON TEST	0																		*TOTALS	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
ANIMAL ID	3																			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Squamous Cell Carcinoma																			4	
Prostate, Dorsal/Lateral Lobe											+	+	+						50	
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Rete Testes	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	43
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Hematopoietic System</b>																				
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node				+					+	+										13
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
<b>Integumentary System</b>																				
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	40
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basal Cell Adenoma																				1
Fibroma																				1
Keratoacanthoma							X				X									3

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:37  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3/10PPBTO CTL**

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

Schwannoma Malignant																		1
<b>Musculoskeletal System</b>																		
Bone																		1
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																		3
<b>Nervous System</b>																		
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Granular Cell Tumor Malignant																		X
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Granular Cell Tumor Malignant																		1
Peripheral Nerve																		2
Spinal Cord																		0
<b>Respiratory System</b>																		
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Alveolar/Bronchiolar Adenoma																		1
Schwannoma Malignant, Metastatic, Skin																		1
Squamous Cell Carcinoma, Metastatic, Uncertain Primary Site																		X
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically



Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:37  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3/10PPBTO CTL**

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

**Special Senses System**

Ear	+																			1
Squamous Cell Papilloma	X																			1
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lacrimal Gland																				2
Zymbal's Gland																				2
Carcinoma																				1
Squamous Cell Carcinoma																				1

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Urethra																				1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																		X		1
Lymphoma Malignant																				1

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically











Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:38  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3/50PPBTO CTL**

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

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Hepatocellular Adenoma																				1
Mesentery										+										3
Oral Mucosa											+	+								6
Squamous Cell Carcinoma												X								5
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Endocrine System**

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:38  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3/50PPBTO CTL**

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
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
9	9	9	9	9	9	4	4	3	3	2	2	2	2	4	4	5	4	4	4	
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	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
0	1	1	1	1	1	3	3	3	3	4	4	4	4	4	5	6	1	1	1	
6	1	2	3	4	1	2	3	3	4	0	1	2	5	6	9	0	2	3	4	
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pheochromocytoma Benign																				1
Pheochromocytoma Malignant																				1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																				1
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma						X	X	X		X		X		X			X			26
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C Cell, Carcinoma																				1
<b>General Body System</b>																				
Tissue NOS																				1
Sarcoma																				1
<b>Genital System</b>																				
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Carcinoma, Metastatic, Uncertain Primary Site																				1
Schwannoma Malignant																				1
Ductus Deferens																				1
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Penis																				1

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically



Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:39  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3/50PPBTO CTL**

DAY ON TEST	0																		*TOTALS
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
ANIMAL ID	4																		
	9	9	9	9	9	4	4	3	3	2	2	2	2	4	4	5	4	4	
	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	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
	0	1	1	1	1	3	3	3	3	4	4	4	4	4	5	6	1	1	
	6	1	2	3	4	1	2	3	3	4	0	1	2	5	6	9	0	2	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Carcinoma							X												1
Squamous Cell Carcinoma																			7
Prostate, Dorsal/Lateral Lobe											+								50
Schwannoma Malignant																			1
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Schwannoma Malignant																			1
Rete Testes	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Interstitial Cell, Adenoma													X						1
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node										+			+		+				16
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Sarcoma											X								1
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
<b>Integumentary System</b>																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Adenocarcinoma																			2

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:39  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3/50PPBTO CTL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	9	9	9	9	9	4	4	3	3	2	2	2	2	4	4	5	4	4	4	
	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	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
	0	1	1	1	1	3	3	3	3	4	4	4	4	4	5	6	1	1	1	
	6	1	2	3	4	1	2	3	4	0	1	2	5	6	9	0	2	3	4	
	<b>*TOTALS</b>																			
Adenoma																				1
Fibroadenoma																				1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Carcinoma																				1
Fibroma																				2
Keratoacanthoma																				1
Lipoma																				2
Sarcoma																				1
<b>Musculoskeletal System</b>																				
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Nervous System</b>																				
Brain																				1
Cranial Nerve, Schwannoma Malignant																				1
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Reticulosis Malignant																				1
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Meninges, Granular Cell Tumor Benign																				1
<b>Respiratory System</b>																				
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:39  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F3/50PPBTO CTL**

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

Thymoma Malignant, Metastatic, Uncertain Primary Site																				1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Osteosarcoma																				1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Special Senses System</b>																				
Ear																				1
Neural Crest Tumor																				1
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Iris, Melanoma Benign																				1
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lacrimal Gland																				1
<b>Urinary System</b>																				
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liposarcoma																				1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>SYSTEMIC LESIONS</b>																				
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

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CD Rat Female F3 OPPB	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	0	0	0	0
		0	4	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
		4	7	0	1	4	7	7	0	0	4	4	5	5	5	7	8	8	9	0	0	2	2	2	4	4	4	5	5
		7	4	4	8	8	1	5	9	2	3	4	1	1	1	6	6	1	0	0	2	8	6	2	6	1	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	1	2	2	2	3	3	3	4	5	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9
		0	7	1	4	9	3	4	6	5	5	1	1	2	2	2	3	4	5	6	7	7	9	9	0	2	3	4	
		6	4	4	2	8	7	6	7	1	3	8	9	2	3	7	8	9	7	2	1	2	5	2	8	1	3	9	

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma							X																					
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma, Metastatic, Uterus																					X							
Cholangiocarcinoma																												
Hepatocellular Adenoma																												X
Nephroblastoma, Metastatic, Kidney									X																			
Mesentery									+												+							
Adenocarcinoma, Metastatic, Uterus																					X							
Nephroblastoma, Metastatic, Kidney									X																			
Oral Mucosa									+														+					
Squamous Cell Carcinoma									X														X					
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma, Metastatic, Uterus																					X							
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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Date Report Requested: 10/23/2014

Test Type: SPECIAL STUDY

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Time Report Requested: 11:56:40

Route: DOSED FEED

CAS Number: 57-63-6

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female F3 OPPB	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	0	0	0	0
	0	4	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
	4	7	0	1	4	7	7	0	0	4	4	5	5	5	7	8	8	9	0	0	2	2	2	4	4	4	4	5	5
	7	4	4	8	8	1	5	9	2	3	4	1	1	1	6	6	1	0	0	2	8	6	2	6	1	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	1	2	2	2	3	3	3	4	5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9
	0	7	1	4	9	3	4	6	5	5	1	1	2	2	2	3	4	5	6	7	7	9	9	0	2	2	3	4	6
	6	4	4	2	8	7	6	7	1	3	8	9	2	3	7	8	9	7	2	1	2	5	2	8	1	3	9	5	

NONE																												
Genital System																												
Clitoral Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Ovary	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Oviduct	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Endometrium, Adenocarcinoma											X								X									
Endometrium, Adenoma																									X			
Nephroblastoma, Metastatic, Kidney										X																		
Polyp Stromal					X																							
Vagina	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Nephroblastoma, Metastatic, Kidney										X																		
Hematopoietic System																												
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Schwannoma Malignant, Metastatic, Skin		X																										
Lymph Node											+	+	+								+			+				+
Lymph Node, Mandibular	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Nephroblastoma, Metastatic, Kidney										X																		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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 Species/Strain: Rat/CD

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

CD Rat Female  
 F3 OPPB

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

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Adenoma																					1
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Adenocarcinoma, Metastatic, Uterus																					1
Cholangiocarcinoma									X												1
Hepatocellular Adenoma																				X	2
Nephroblastoma, Metastatic, Kidney																					1
Mesentery																				+	3
Adenocarcinoma, Metastatic, Uterus																					1
Nephroblastoma, Metastatic, Kidney																					1
Oral Mucosa																					2
Squamous Cell Carcinoma																					2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Adenocarcinoma, Metastatic, Uterus																					1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52

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CD Rat Female F3 OPPB	DAY ON TEST	ANIMAL ID																				*TOTALS
		07050	07054	07055	07055	07055	07055	07055	07055	07055	07055	07055	07055	07055	07055	07055	07055	07055	07055	07055	07055	
		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	
		5	4	5	5	5	5	5	4	4	4	4	5	5	5	5	5	5	5	5	5	
		0	9	0	0	0	0	0	9	9	9	9	4	4	3	5	5	4	5	5	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	1	1	1	1	1	1	1	1	1	1	1	1	
		9	9	9	9	9	9	9	9	0	0	0	0	0	0	1	1	1	1	1	1	
		6	6	7	7	7	7	7	8	2	2	8	8	8	9	2	2	2	3	3	3	
		6	7	0	1	2	7	8	9	3	6	7	1	2	5	6	2	3	7	0	1	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Adenocarcinoma, Metastatic, Uterus																						1
Squamous Cell Papilloma																						1
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Leiomyosarcoma																						1
<b>Cardiovascular System</b>																						
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
<b>Endocrine System</b>																						
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Adenoma																						2
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Adenoma										X												1
Parathyroid Gland		M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Pars Distalis, Adenoma		X		X	X		X		X		X	X	X	X	X	X		X		X		32
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
C Cell, Adenoma																X						1
C Cell, Carcinoma																						1
<b>General Body System</b>																						

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**CD Rat Female  
 F3 OPPB**

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

NONE																				
<b>Genital System</b>																				
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Endometrium, Adenocarcinoma											X									X
Endometrium, Adenoma																				
Nephroblastoma, Metastatic, Kidney																				
Polyp Stromal																				
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Nephroblastoma, Metastatic, Kidney																				
<b>Hematopoietic System</b>																				
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Schwannoma Malignant, Metastatic, Skin																				
Lymph Node	+													+		+				
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Nephroblastoma, Metastatic, Kidney																				
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:41  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3 OPPB**

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

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Adenocarcinoma							X			X											6
Fibroadenoma				X		X													X		17
Fibroadenoma, Multiple	X				X		X				X	X		X		X	X		X		19
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Lipoma																		X			1
Sarcoma																					1
Schwannoma Malignant																					1

**Musculoskeletal System**

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Skeletal Muscle																					3
Diaphragm, Adenocarcinoma, Metastatic, Uterus																					1
Diaphragm, Nephroblastoma, Metastatic, Kidney																					1

**Nervous System**

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52

**Respiratory System**

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:41  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F3 OPPB	DAY ON TEST	ANIMAL ID																				*TOTALS
		0700	0701	0702	0703	0704	0705	0706	0707	0708	0709	0710	0711	0712	0713	0714	0715	0716	0717	0718	0719	
Lung		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Alveolar/Bronchiolar Adenoma		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	1
Carcinoma, Metastatic, Thyroid Gland		5	4	5	5	5	5	5	4	4	4	4	5	5	5	5	5	5	5	5	5	1
Nose		0	9	0	0	0	0	0	9	9	9	9	4	4	4	3	5	5	4	5	5	52
Trachea		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	52
9		9	9	9	9	9	9	9	9	0	0	0	0	0	0	1	1	1	1	1	1	
6		6	6	7	7	7	7	7	7	8	2	2	8	8	8	9	2	2	2	3	3	
6		7	0	1	2	7	7	8	9	3	6	2	7	5	6	2	3	7	0	1	5	
Special Senses System																						
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Urinary System																						
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Lipoma																						1
Nephroblastoma																						1
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
SYSTEMIC LESIONS																						
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Leukemia Mononuclear																						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













Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:42  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F3/2PPB TO CTL

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

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Carcinoma																			1
Leiomyoma																			1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Carcinoma, Metastatic, Intestine Small, Jejunum																			1
Cholangiocarcinoma																	X		1
Hepatocellular Carcinoma						X													1
Mesentery																			3
Oral Mucosa						+													4
Squamous Cell Carcinoma																			1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically



Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:42  
 First Dose M/F: NA / NA  
 Lab: NCTR

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

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

**\*TOTALS**

Granulosa Cell Tumor Benign																			1
Granulosa Cell Tumor Malignant																			1
Sertoli Cell Tumor Benign														X					2
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Endometrium, Adenocarcinoma																			1
Endometrium, Adenoma																			1
Polyp Stromal						X				X					X			X	7
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node	+	+	+	+					+	+			+	+	+		+		17
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
<b>Integumentary System</b>																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma				X					X							X			4
Adenocarcinoma, Multiple																			2
Fibroadenoma				X	X						X								13
Fibroadenoma, Multiple	X					X	X	X		X			X	X	X	X	X	X	21

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 X ..Lesion present  
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Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:43  
 First Dose M/F: NA / NA  
 Lab: NCTR

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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	4	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	
	9	0	0	9	2	5	5	4	4	4	4	4	4	4	4	5	5	9	7	
	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	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
	8	1	2	2	5	7	7	7	8	8	8	8	9	9	9	2	3	3	3	
	1	7	2	3	0	4	5	6	3	4	7	8	2	3	4	4	2	3	4	
	<b>*TOTALS</b>																			
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ear, Basal Cell Adenoma		X																		1
Fibroma																				2
<b>Musculoskeletal System</b>																				
Bone																				1
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																				4
Diaphragm, Granulosa Cell Tumor																				1
Malignant, Metastatic, Ovary																				1
<b>Nervous System</b>																				
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Peripheral Nerve																				1
Spinal Cord																				1
<b>Respiratory System</b>																				
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
<b>Special Senses System</b>																				
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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M ..Missing tissue  
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Experiment Number: 99920-93  
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 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:43  
 First Dose M/F: NA / NA  
 Lab: NCTR

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

	DAY ON TEST																				*TOTALS
	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	
	4	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	
	9	0	0	9	2	5	5	4	4	4	4	4	4	4	4	5	5	9	7		
	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
	8	1	2	2	5	7	7	7	8	8	8	8	9	9	9	2	3	3	3	3	
	1	7	2	3	0	4	5	6	3	4	7	8	2	3	4	4	2	3	3	4	
Harderian Gland			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Urinary System</b>																					
Kidney			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urinary Bladder			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>SYSTEMIC LESIONS</b>																					
Multiple Organ			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mesothelioma Malignant																				1	

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 BLANK ..Not examined microscopically













Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:44  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F3/10PPBTO CTL

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

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Carcinoma																	X		1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Mesentery																+		+	4
Oral Mucosa					+	+				+									7
Fibrous Histiocytoma																			1
Squamous Cell Carcinoma											X								2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Squamous Cell Papilloma											X								2
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

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 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:44  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/10PPBTO CTL**

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

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																				1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	47
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X				36
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C Cell, Adenoma																				1
C Cell, Carcinoma																				1

**General Body System**

Tissue NOS																				1
Squamous Cell Carcinoma, Deep Invasion																				1

**Genital System**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma																				1
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Granulosa Cell Tumor Benign																				1
Sertoli Cell Tumor Benign											X									1
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:44  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/10PPBTO CTL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	5	5	4	4	4	5	4	4	5	5	5	5	5	5	5	5	5	5	4	
	0	0	8	9	9	0	9	8	1	5	4	4	4	4	5	5	4	5	5	
	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	
	9	9	9	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
	6	7	8	1	1	1	2	2	5	7	7	7	8	9	2	2	2	3	3	
	4	5	2	5	6	9	1	9	2	1	2	7	6	5	5	6	8	7	8	
	<b>*TOTALS</b>																			
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Endometrium, Adenoma																				2
Polyp Stromal													X							2
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Hematopoietic System</b>																				
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node				+			+					+			+			+		10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Carcinoma, Metastatic, Zymbal'S Gland																				1
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
<b>Integumentary System</b>																				
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma						X					X		X							6
Adenocarcinoma, Multiple																				3
Fibroadenoma		X			X			X						X				X		21
Fibroadenoma, Multiple	X		X	X		X	X			X	X	X		X			X			19
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibrous Histiocytoma																				1
Sarcoma																				1

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:44  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/10PPBTO CTL**

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

**Musculoskeletal System**

Bone, Femur + + + + + + + + + + + + + + + + + + 50

**Nervous System**

Brain, Brain Stem + + + + + + + + + + + + + + + + + + 50

Brain, Cerebellum + + + + + + + + + + + + + + + + + + 50

Brain, Cerebrum + + + + + + + + + + + + + + + + + + 50

**Respiratory System**

Lung + + + + + + + + + + + + + + + + + + 50

Adenocarcinoma, Metastatic, Mammary Gland 1

Carcinoma, Metastatic, Thyroid Gland 1

Carcinoma, Metastatic, Zymbal'S Gland 1

Nose + + + + + + + + + + + + + + + + + + 50

Trachea + + + + + + + + + + + + + + + + + + 50

**Special Senses System**

Ear + + + + + + + + + + + + + + + + + + 2

Neural Crest Tumor X 2

Eye + + + + + + + + + + + + + + + + + + 49

Harderian Gland + + + + + + + + + + + + + + + + + + 50

Squamous Cell Carcinoma, Deep Invasion X 1

Zymbal's Gland 1

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically



Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:45  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/10PPBTO CTL**

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

Carcinoma																				1
<b>Urinary System</b>																				
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Renal Tubule, Adenoma									X											1
Urinary Bladder	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	49
<b>SYSTEMIC LESIONS</b>																				
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma																				1
Lymphoma Malignant																				1
Mesothelioma Malignant																				1

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically











Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:46  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/50PPBTO CTL**

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

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cholangioma																			1
Mesentery																			4
Oral Mucosa																			2
Squamous Cell Carcinoma																			1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Squamous Cell Carcinoma																			1
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:46  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/50PPBTO CTL**

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

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pheochromocytoma Benign																				1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																		X		1
Parathyroid Gland	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	44
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma	X		X	X	X	X	X				X	X		X			X	X	X	32
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Bilateral, C Cell, Adenoma																				1
C Cell, Adenoma																				1

**General Body System**

Tissue NOS																				1
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung																				1

**Genital System**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma																				2
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Granulosa Cell Tumor Benign																				2

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically



Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:46  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female F3/50PPBTO CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		4	4	4	4	5	5	4	4	4	5	5	5	5	5	5	5	5	5	
		9	9	9	8	0	0	9	9	9	2	5	4	4	4	4	4	5	3	
		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	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
		4	6	7	8	1	2	2	2	5	7	7	8	8	9	9	2	3		
		1	9	9	6	4	8	0	4	5	8	1	3	8	9	0	9	6		
Oviduct		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leiomyoma																			1	
Polyp Stromal										X									5	
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>Hematopoietic System</b>																				
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node						+					+				+			+	5	
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mesenteric		M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
<b>Integumentary System</b>																				
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenocarcinoma		X		X															10	
Fibroadenoma														X			X	X	13	
Fibroadenoma, Multiple		X	X	X	X	X		X	X	X	X	X	X		X				24	
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basal Cell Adenoma											X								1	
Fibroma																			1	
Sarcoma																			1	

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 11:56:46  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F3/50PPBTO CTL**

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

**Musculoskeletal System**

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																			1

**Nervous System**

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Astrocytoma Malignant																			1
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Peripheral Nerve																			1
Spinal Cord																			1

**Respiratory System**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenocarcinoma, Metastatic, Mammary Gland																			1
Alveolar/Bronchiolar Adenoma																			1
Alveolar/Bronchiolar Carcinoma									X										1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**Special Senses System**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

Experiment Number: 99920-93  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 11:56:46

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Female  
 F3/50PPBTO CTL**

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

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liposarcoma	X																			1
Nephroblastoma																				1
Renal Tubule, Adenoma																		X		1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Transit Epithe, Papilloma					X															1

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																				1

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

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