

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

**P17: 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:** 11:55:33

**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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Species/Strain: Rat/CD

Lab: NCTR

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	0					
		1	4	4	5	5	5	5	5	5	6	6	6	6	6	6	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	4	4	4	4	4	4						
		4	2	9	1	7	2	5	0	9	1	0	6	9	0	3	0	2	3	1	3	5	9	9	9	9	9	9	9						
Blood Vessel		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Heart		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0						
Endocrine System		0	1	1	2	2	3	3	3	4	4	8	8	8	8	8	8	8	9	9	1	9	9	9	9	9	9	9	9						
Adrenal Cortex		2	1	1	4	5	2	7	8	0	5	1	2	3	3	4	6	7	6	0	1	2	1	1	1	2	5	5	5						
Adenoma		1	4	9	6	8	5	5	5	3	2	4	0	0	2	5	6	0	7	9	0	1	1	2	9	0	2	3	4	5	2	3			
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Pheochromocytoma Benign		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Pheochromocytoma Malignant		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Islets, Pancreatic		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Adenoma												X											X												
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Adenoma														X																					
Pituitary Gland		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pars Distalis, Adenoma									X	X	X			X	X			X	X	X				X	X	X		X	X	X					
Thyroid Gland		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
C Cell, Carcinoma																																			
General Body System																																			
NONE																																			
Genital System																																			
Coagulating Gland		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epididymis		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* ..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: 11:55:34  
 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	0
	7	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	5	5	5
	9	9	0	0	0	0	0	2	2	3	3	4	4	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	9	9	9	9	9	0	1	0	1	0	1	0	1	1	1	1	1
	0	1	4	4	5	9	9	4	2	3	1	5	0	9	0	0	0	0	0
	9	0	4	9	0	4	5	9	0	7	9	3	9	9	2	5	6	7	8
	<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**

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

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

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

**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

P17: 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: 11:55:37

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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	9	0	0	0	2	2	2	3	4	4	4	4	4	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	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	0	0	1	1	
	1	4	4	8	4	4	4	4	5	5	5	5	5	6	6	6	0	0	
	5	6	7	8	4	7	8	3	4	5	6	7	8	6	7	9	3	4	*TOTALS
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											X				4
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma																			1
Parathyroid Gland	+	+	+	+	+	+	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

**P17: 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: 11:55:37  
 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	
ANIMAL ID	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	9	0	0	0	2	2	2	3	4	4	4	4	4	5	5	5	5	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	0	0	0	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	4	4	8	4	4	4	4	5	5	5	5	5	6	6	6	0	
	5	6	7	8	4	7	8	3	4	5	6	7	8	6	7	9	3	
	*TOTALS																	
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

**P17: 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: 11:55:37  
 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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	9	0	0	0	2	2	2	3	4	4	4	4	4	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	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	0	0	1	1
	1	4	4	8	4	4	4	4	5	5	5	5	5	6	6	6	0	0
	5	6	7	8	4	7	8	3	4	5	6	7	8	6	7	9	3	4
	<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

P17: 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: 11:55:37

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

**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

**P17: 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: 11:55:37  
 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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	9	0	0	0	2	2	2	3	4	4	4	4	4	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	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	0	0	1	1	
	1	4	4	8	4	4	4	4	5	5	5	5	5	6	6	6	0	0	
	5	6	7	8	4	7	8	3	4	5	6	7	8	6	7	9	3	4	<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

P17: 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: 11:55:39

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	*TOTALS
	ANIMAL ID	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	
		3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5	
Blood Vessel		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Heart		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50
<b>Endocrine System</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Adrenal Cortex		3	3	3	3	6	6	6	6	6	6	7	1	1	1	9	9	0	49
Adenoma		0	5	6	9	1	2	3	4	5	8	0	0	1	7	8	0	0	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

**P17: 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: 11:55:39  
 First Dose M/F: NA / NA  
 Lab: NCTR

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

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

**P17: 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: 11:55:39  
 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	4	4	4	5	5	5	5	5
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	1	1	1	1	0	0	1	1	1
	3	3	3	3	6	6	6	6	6	6	7	1	1	1	1	9	9	0	0
	0	5	6	9	1	2	3	4	5	8	0	1	1	7	8	7	8	0	1
	<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					1
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					1
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

**P17: 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: 11:55:39  
 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	4	4	4	5	5	5	5	5
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	1	1	1	1	0	0	1	1	1
	3	3	3	3	6	6	6	6	6	6	7	1	1	1	1	9	9	0	0
	0	5	6	9	1	2	3	4	5	8	0	0	1	7	8	7	8	0	1
	<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

**P17: 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: 11:55:40  
 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	0	
	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	9	
	9	0	0	0	2	2	2	2	2	3	3	4	4	4	4	4	4	5	1	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
	0	9	9	9	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	
	1	8	9	9	4	4	4	4	4	3	3	3	3	5	6	1	1	1	1	
	4	9	1	2	0	1	2	5	6	3	3	4	1	2	9	0	3	4	2	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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: SPECIAL STUDY

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Time Report Requested: 11:55:41

Route: DOSED FEED

CAS Number: 57-63-6

First Dose M/F: NA / NA

Species/Strain: Rat/CD

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

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue



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

**P17: 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: 11:55:41  
 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	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0	
	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	9	
	9	0	0	0	2	2	2	2	2	3	3	4	4	4	4	4	5	1	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
	0	9	9	9	0	0	0	0	0	0	0	0	0	0	1	1	1	0	
	1	8	9	9	4	4	4	4	4	3	3	3	3	5	6	1	1	1	
	4	9	1	2	0	1	2	5	6	3	4	1	2	9	0	3	4	2	4
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	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

P17: 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: 11:55:41

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male
F3/50PPBTO CTL

Table with columns for DAY ON TEST and ANIMAL ID, and rows for various lesion types and counts.

\*TOTALS

Main data table listing lesion types (Adenoma, Fibroadenoma, Skin, etc.) and their counts across 50 animals.

\* ..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

**P17: 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: 11:55:41  
 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	0	
	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	9	
	9	0	0	0	2	2	2	2	2	3	3	4	4	4	4	4	5	5	1	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
	0	9	9	9	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	
	1	8	9	9	4	4	4	4	4	3	3	3	3	5	6	1	1	1	1	
	4	9	1	2	0	1	2	5	6	3	3	4	1	2	9	0	3	4	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																			X	1
Eye	+ + + + + + + + + + + + + + + + + + + +																		50	
Iris, Melanoma Benign																			X	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

**P17: 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: 11:55:41  
 First Dose M/F: NA / NA  
 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	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	4
		7	4	4	8	8	1	5	9	2	3	1	4	1	6	6	1	0	0	2	6	8	1	2	6	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	1	2	2	2	3	3	3	4	5	8	8	8	8	8	8	8	8	8	8	8	9	8	8	9	9	9	9
		0	7	1	4	9	3	4	6	5	5	1	1	2	2	2	3	4	5	6	7	0	9	9	2	3	4	6	7
		6	4	4	2	8	7	6	7	1	3	9	8	2	3	7	8	9	7	2	1	5	2	1	2	8	3	9	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																													X
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  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

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



Experiment Number: 99920-93

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: SPECIAL STUDY

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Time Report Requested: 11:55:42

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		
		0	4	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	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	4			
		7	4	4	8	8	1	5	9	2	3	1	4	1	1	6	6	1	0	0	2	6	8	1	2	6	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	9	8	8	9	9	9			
		0	7	1	4	9	3	4	6	5	5	1	1	2	2	2	3	4	5	6	7	0	9	9	2	2	3	4	6	7		
		6	4	4	2	8	7	6	7	1	3	9	8	2	3	7	8	9	7	2	1	5	2	1	2	8	3	9	0	2	7	9

NONE																																
<b>Genital System</b>																																
Clitoral Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Ovary	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Oviduct	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Endometrium, Adenocarcinoma												X								X												
Endometrium, Adenoma																																
Nephroblastoma, Metastatic, Kidney											X																					
Polyp Stromal						X																										
Vagina	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nephroblastoma, Metastatic, Kidney											X																					
<b>Hematopoietic System</b>																																
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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* ..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

**P17: 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: 11:55:42  
 First Dose M/F: NA / NA  
 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	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	5	7	8	8	9	0	0	2	2	2	4	4	4	4
		7	4	4	8	8	1	5	9	2	3	1	4	1	1	6	6	1	0	0	2	6	8	1	2	6	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	9	8	8	9	9	9	9
		0	7	1	4	9	3	4	6	5	5	1	1	2	2	2	3	4	5	6	7	0	9	9	2	2	3	4	
		6	4	4	2	8	7	6	7	1	3	9	8	2	3	7	8	9	7	2	1	5	2	1	2	8	3	9	9

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma											X	X	X								X								
Fibroadenoma				X	X						X	X	X		X	X	X		X	X		X		X					
Fibroadenoma, Multiple					X	X							X						X		X				X	X			
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lipoma																													
Sarcoma					X																								
Schwannoma Malignant			X																										

**Musculoskeletal System**

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle							+	+																					
Diaphragm, Adenocarcinoma, Metastatic, Uterus																						X							
Diaphragm, Nephroblastoma, Metastatic, Kidney									X																				

**Nervous System**

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**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

**P17: 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: 11:55:42  
 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
	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	9	9	9	0	0	0	0	0	0	0	0	3	3	4	4	4	4	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	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	9	0	0	9	9	9	9	9	9	9	0	1	0	0	0	1	1	1	1	1
	8	2	2	6	6	6	7	7	7	7	9	3	8	8	8	2	2	2	3	3
	3	6	7	3	5	6	0	1	2	7	8	6	5	1	2	5	7	2	3	1
	<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																					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

\* ..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

**P17: 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: 11:55:43  
 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
	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	9	9	9	0	0	0	0	0	0	0	0	3	3	4	4	4	5	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	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	9	0	0	9	9	9	9	9	9	9	0	1	0	0	0	1	1	1	1	1
	8	2	2	6	6	6	7	7	7	7	9	3	8	8	8	2	2	2	3	3
	3	6	7	3	5	6	6	0	1	2	7	8	6	5	1	2	5	7	2	3
	<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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* ..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

**P17: 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: 11:55:43  
 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
	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	9	9	9	0	0	0	0	0	0	0	0	3	3	4	4	4	4	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	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
	9	0	0	9	9	9	9	9	9	9	0	1	0	0	0	1	1	1	1	1
	8	2	2	6	6	6	7	7	7	7	9	3	8	8	8	2	2	2	3	3
	3	6	7	3	5	6	0	1	2	7	8	6	5	1	2	5	7	2	3	0
	<b>*TOTALS</b>																			

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	52
Adenocarcinoma			X								X										6
Fibroadenoma					X				X	X										X	17
Fibroadenoma, Multiple				X	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

**P17: 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: 11:55:44  
 First Dose M/F: NA / NA  
 Lab: NCTR

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
CD Rat Female	4	4	5	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
F3/2PPB TO CTL	1	9	2	4	4	5	9	9	0	2	2	7	8	8	9	0	0	1	2	2	3	4	4	4	4	4	4	4
	8	5	2	1	8	7	7	9	9	1	4	3	0	3	6	0	8	8	2	6	6	7	9	9	9	9	9	9

Tongue	+																											
<b>Cardiovascular System</b>																												
Blood Vessel	+																											
Heart	+																											
<b>Endocrine System</b>																												
Adrenal Cortex	+																											
Adenoma																												
Adrenal Medulla	+																											
Islets, Pancreatic	+																											
Parathyroid Gland	+																											
Pituitary Gland	+																											
Pars Distalis, Adenoma	X																											
Thyroid Gland	+																											
C Cell, Adenoma																												
<b>General Body System</b>																												
NONE																												
<b>Genital System</b>																												
Clitoral Gland	+																											
Adenoma																												
Ovary	+																											
Granulosa Cell Tumor Benign	X																											

\* ..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

**P17: 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: 11:55:44  
 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	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	9	9	0	0	0	0	2	4	4	4	4	4	4	4	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	1	9	9	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2	3	7	7	1	2	5	7	8	8	8	9	9	9	7	7	2	3
	3	3	3	4	7	2	0	6	3	4	7	8	2	3	4	4	5	4
	<b>*TOTALS</b>																	

**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				X															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

**P17: 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: 11:55:45  
 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	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	9	9	0	0	0	0	2	4	4	4	4	4	4	4	5	5	5	5	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	1	9	9	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
	2	3	7	7	1	2	5	7	8	8	8	8	9	9	9	7	2	3	
	3	3	3	4	7	2	0	6	3	4	7	8	2	3	4	4	5	4	2
	<b>*TOTALS</b>																		

Tongue																			1	
<b>Cardiovascular System</b>																				
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>Endocrine System</b>																				
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma														X	X				2	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Parathyroid Gland	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	45	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Adenoma	X	X		X	X	X		X	X	X	X	X	X		X			X	X	30
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
C Cell, Adenoma					X														1	
<b>General Body System</b>																				
NONE																				
<b>Genital System</b>																				
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma																			1	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Granulosa Cell Tumor Benign																			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

**P17: 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: 11:55:45  
 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	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	9	9	0	0	0	0	2	4	4	4	4	4	4	4	4	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	1	9	9	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	2	3	7	7	1	2	5	7	8	8	8	8	9	9	9	7	2	3
	3	3	3	4	7	2	0	6	3	4	7	8	2	3	4	4	5	4
	<b>*TOTALS</b>																	

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

\* ..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

**P17: 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: 11:55:45  
 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	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
	9	9	0	0	0	0	2	4	4	4	4	4	4	4	5	5	5	5	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	1	9	9	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
	2	3	7	7	1	2	5	7	8	8	8	8	9	9	9	7	7	2	
	3	3	3	4	4	2	2	6	3	4	7	8	2	3	4	4	5	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																			
<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  
 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

**P17: 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: 11:55:45

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	
ANIMAL ID	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	5	5	
	9	9	0	0	0	0	2	4	4	4	4	4	4	4	5	5	5	5	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	1	9	9	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
	2	3	7	7	1	2	5	7	8	8	8	8	9	9	9	7	7	2	
	3	3	3	4	7	2	0	6	3	4	7	8	2	3	4	4	5	4	
																			<b>*TOTALS</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>Urinary System</b>																			
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
<b>SYSTEMIC LESIONS</b>																			
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
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

**P17: 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: 11:55:46  
 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	
	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	
	9	9	9	9	9	9	0	0	0	1	4	4	4	4	5	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	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	
	9	9	9	0	0	0	9	9	0	0	0	0	0	1	0	1	1	1	
	2	3	3	1	1	2	6	7	1	5	7	7	8	9	3	7	2	2	
	4	6	7	5	6	1	4	5	9	2	2	7	6	5	7	1	5	6	8

**\*TOTALS**

**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

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

**P17: 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: 11:55:46  
 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
	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
	9	9	9	9	9	9	0	0	0	1	4	4	4	4	5	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	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1
	9	9	9	0	0	0	9	9	0	0	0	0	0	1	0	1	1	1
	2	3	3	1	1	2	6	7	1	5	7	7	8	9	3	7	2	2
	4	6	7	5	6	1	4	5	9	2	2	7	6	5	7	1	5	6

**\*TOTALS**

**Endocrine System**

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

**General Body System**

Tissue NOS																			1
Squamous Cell Carcinoma, Deep Invasion																	X		1

**Genital System**

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

**P17: 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: 11:55:46  
 First Dose M/F: NA / NA  
 Lab: NCTR

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

DAY ON TEST	ANIMAL ID																		*TOTALS
	0 7 4 9	0 7 4 9	0 7 4 9	0 7 4 9	0 7 4 9	0 7 4 9	0 7 4 9	0 7 5 9	0 7 5 9	0 7 5 9	0 7 5 9	0 7 5 9	0 7 5 9	0 7 5 9	0 7 5 9	0 7 5 9	0 7 5 9	0 7 5 9	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Endometrium, Adenoma																			2
Polyp Stromal	X											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		X		X						6
Adenocarcinoma, Multiple			X																3
Fibroadenoma	X		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		X																	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

**P17: 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: 11:55:47  
 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
	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5
	9	9	9	9	9	9	0	0	0	1	4	4	4	4	4	5	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	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1
	9	9	9	0	0	0	9	9	0	0	0	0	0	0	1	0	1	1	1
	2	3	3	1	1	2	6	7	1	5	7	7	8	9	3	7	2	2	2
	4	6	7	5	6	1	4	5	9	2	2	7	6	5	7	1	5	6	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 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

**P17: 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: 11:55:47  
 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	
	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	
	9	9	9	9	9	9	0	0	0	1	4	4	4	4	5	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	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	
	9	9	9	0	0	0	9	9	0	0	0	0	0	1	0	1	1	1	
	2	3	3	1	1	2	6	7	1	5	7	7	8	9	3	7	2	2	
	4	6	7	5	6	1	4	5	9	2	2	7	6	5	7	1	5	6	8
	<b>*TOTALS</b>																		

Carcinoma																			1
<b>Urinary System</b>																			
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Renal Tubule, Adenoma																			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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: SPECIAL STUDY

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Time Report Requested: 11:55:48

Route: DOSED FEED

CAS Number: 57-63-6

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

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	
2	3	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	
8	2	0	2	3	9	4	6	7	9	9	0	1	3	6	7	7	8	8	9	0	1	2	2	4	4	4	4	4	4	
7	1	0	7	0	3	8	1	8	6	7	3	6	3	9	7	9	0	2	4	7	5	1	3	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	1	1	1	2	3	3	3	3	5	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	
4	5	9	1	2	9	9	2	5	9	9	5	0	1	3	5	5	4	5	6	7	8	9	9	8	2	2	2	3	3	
3	2	1	8	1	9	7	2	7	7	8	2	4	5	6	0	1	8	6	3	1	3	4	0	4	5	6	7	3	8	9

Musculoskeletal System

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle			+																											

Nervous System

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

Respiratory System

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

Special Senses System

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

\* ..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

**P17: 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: 11:55:48  
 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	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
	9	9	9	9	9	9	9	0	0	2	3	4	4	4	4	4	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	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	1	0	0	0	0	0	0	0	1
	4	4	6	7	2	2	2	1	2	5	3	7	7	8	8	9	9	7	2
	0	1	9	6	4	5	8	8	0	1	6	8	9	0	9	0	1	3	9
	<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	X																			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

**P17: 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: 11:55:48  
 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	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
	9	9	9	9	9	9	9	0	0	2	3	4	4	4	4	4	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	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	1	0	0	0	0	0	0	0	1
	4	4	6	7	2	2	2	1	2	5	3	7	7	8	8	9	9	7	2
	0	1	9	6	4	5	8	8	0	1	6	8	9	0	9	0	1	3	9
	<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	32
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Bilateral, C Cell, Adenoma																				1
C Cell, Adenoma																				1

**General Body System**

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

**Genital System**

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

**P17: 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: 11:55:48  
 First Dose M/F: NA / NA  
 Lab: NCTR

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

	DAY ON TEST																		*TOTALS
	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	
	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	
	9	9	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	9	9	9	9	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
	4	4	6	7	2	2	2	1	2	5	3	7	7	8	8	9	9	7	
	0	1	9	6	4	5	8	8	0	1	6	8	9	0	9	0	1	2	
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leiomyoma																		1	
Polyp Stromal											X							5	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Hematopoietic System</b>																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node										+	+				+			+	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Integumentary System</b>																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma		X		X														10	
Fibroadenoma	X										X			X			X	13	
Fibroadenoma, Multiple		X	X	X	X	X	X	X		X		X	X		X		X	24	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
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

**P17: 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: 11:55:48  
 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	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
	9	9	9	9	9	9	9	0	0	2	3	4	4	4	4	4	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	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	1	0	0	0	0	0	0	0	1
	4	4	6	7	2	2	2	1	2	5	3	7	7	8	8	9	9	7	2
	0	1	9	6	4	5	8	8	0	1	6	8	9	0	9	0	1	3	9
	<b>*TOTALS</b>																		

**Musculoskeletal System**

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

**Nervous System**

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Astrocytoma Malignant	X																			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

P17: 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: 11:55:49

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	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
	9	9	9	9	9	9	9	0	0	2	3	4	4	4	4	4	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	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	1	0	0	0	0	0	0	0	1
	4	4	6	7	2	2	2	1	2	5	3	7	7	8	8	9	9	7	2
	0	1	9	6	4	5	8	8	0	1	6	8	9	0	9	0	1	3	9
	<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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