

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethiny Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:35

First Dose M/F: NA / NA

Lab: NCTR

C Number: MG96006
Lock Date: 12/02/2008
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date NONE

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First Dose M/F: NA / NA

Lab: NCTR

Alimentary System

* ..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

| ..Insufficient tissue

X

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Endocrine System

General Body System

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Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

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First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 0PPB	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	
		3	4	4	4	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	
		8	1	4	7	2	5	9	1	3	4	8	0	0	3	4	4	5	5	5	5	5	5	5	
		3	3	3	8	6	6	2	9	1	7	8	2	4	0	1	4	6	6	5	7	7	7	8	
Squamous Cell Carcinoma																						X	X		
Prostate, Dorsal/Lateral Lobe		+	A	+	A			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Prostate, Ventral Lobe		+	+	+	+	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+		
Rete Testes		+	A	+	+	A	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+		
Seminal Vesicle		A	A	+	A	A	+	+	+	+	+	A	A	+	+	+	+	A	+	+	+	+	+		
Adenoma																									
Testes		+	A	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+		
Hematopoietic System																									
Bone Marrow		A	A	+	+	A	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+		
Lymph Node																									
Lymph Node, Mandibular		A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymph Node, Mesenteric		A	A	+	A	A	+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+		
Spleen		A	+	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+		
Thymus		A	A	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+		
Integumentary System																									
Mammary Gland		+	A	+	M	A	+	+	+	+	M	M	+	+	+	M	+	+	+	+	+	+	+		
Adenocarcinoma																									
Fibroadenoma																									
Fibroma																									
Lipoma																									
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Basal Cell Adenoma																									

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

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Adenocarcinoma																			X	1
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Mesentery																				1
Oral Mucosa		+																		3
Squamous Cell Carcinoma		X																		3
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Squamous Cell Papilloma			X																	1
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Endocardium, Schwannoma Malignant																				1

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CD Rat Male F1 0PPB	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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		8	1	1	1	1	1	2	2	2	2	3	3	3	3	3	3	2	2
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
*TOTALS																			

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adenoma																			2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Pheochromocytoma Benign	X																		2
Pheochromocytoma Complex																			1
Pheochromocytoma Malignant																			1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	49
Adenoma																			4
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Pars Distalis, Adenoma	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	25
Schwannoma Malignant																			1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
C Cell, Adenoma																			5

General Body System

Tissue NOS																			+	1
Genital System																				
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	

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First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male
F1 0PPB

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

*TOTALS

Squamous Cell Carcinoma	X	4
Prostate, Dorsal/Lateral Lobe	+	49
Prostate, Ventral Lobe	+	49
Rete Testes	+	46
Seminal Vesicle	+	43
Adenoma		1
Testes	+	48
Hematopoietic System		
Bone Marrow	+	46
Lymph Node	+	14
Lymph Node, Mandibular	+	49
Lymph Node, Mesenteric	+	45
Spleen	+	48
Thymus	+	45
Integumentary System		
Mammary Gland	+	44
Adenocarcinoma	X	1
Fibroadenoma		1
Fibroma		1
Lipoma		X
Skin	+	51
Basal Cell Adenoma	X	1

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Species/Strain: Rat/CD

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Date Report Requested: 10/23/2014

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First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male
F1 OPPB

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First Dose M/F: NA / NA

Lab: NCTR

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

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	A	+	+	+	A	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	A	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	A	+	+	+	A	+	+	+	A	+	+	M	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	A	+	+	+	A	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	A	+	+	+	A	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	A	+	+	+	A	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Sarcoma																								
Liver	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hepatocellular Adenoma									X					X										
Mesentery																								
Oral Mucosa																+		+						
Sarcoma																	X							
Pancreas	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	
Cardiovascular System																								
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Endocardium, Schwannoma Malignant								X																

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First Dose M/F: NA / NA

Lab: NCTR

Endocrine System

General Body System

NONE

Genital System

Coagulating Gland
Epididymis
Penis
Preputial Gland
Squamous Cell C

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First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 2PPB	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
		1	1	3	4	5	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
		4	9	8	9	5	9	9	0	1	3	3	5	8	9	0	1	3	4	5	5	5	5
		6	8	6	2	4	8	7	6	0	7	8	9	0	8	6	4	6	7	3	6	6	7
Prostate, Dorsal/Lateral Lobe		+	+	+	+																		
Prostate, Ventral Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rete Testes		+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	M	M	+	+
Seminal Vesicle		A	+	+	+	+	+	+	+	A	+	+	A	+	+	A	+	+	+	+	+	+	+
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic System																							
Bone Marrow		A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node			+		+	+						+		+		+		+					
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric		A	+	+	I	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+
Spleen		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus		A	+	+	+	+	+	+	+	A	+	I	M	+	+	+	+	+	+	+	+	+	+
Integumentary System																							
Mammary Gland		+	+	+	M	+	+	+	M	+	M	M	+	M	+	+	+	+	+	+	+	+	+
Fibroadenoma																							
Fibroma																							X
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basal Cell Adenoma																							
Keratoacanthoma														X									
Squamous Cell Carcinoma													X										
Musculoskeletal System																							

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:38

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 2PPB	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	
		1	1	3	4	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	
		4	9	8	9	5	9	9	9	0	1	3	3	5	8	9	0	1	3	4	5	5	5	5	5	5	
		6	8	6	2	4	8	7	6	0	7	8	9	0	8	6	4	6	7	3	6	6	7	7	7	8	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																+											
Nervous System																											
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	1	1	1	1	1	2	2	2	3	3	3	4	4	4	4	5
Granular Cell Tumor Benign																											
Granular Cell Tumor Malignant																											
Peripheral Nerve																											
Spinal Cord																											
Respiratory System																											
Lung	A	+	+	+	+	+	+	+	+	A	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Carcinoma, Metastatic, Preputial Gland																	X										
Nose	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Osteosarcoma																											
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Special Senses System																											
Eye	A	+	+	+	+	+	+	+	+	A	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	
Harderian Gland	A	+	+	+	+	+	+	+	+	A	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	
Urinary 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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:38

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 2PPB	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	
		1	1	3	4	5	5	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	
		4	9	8	9	5	9	9	9	0	1	3	3	5	8	9	0	1	3	4	5	5	5	5	
		6	8	6	2	4	8	7	6	0	7	8	9	0	8	6	4	6	7	3	6	6	7	7	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kidney	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Renal Tubule, Carcinoma																									
Urethra															+										
Urinary Bladder	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SYSTEMIC LESIONS																									
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Granulocytic	X	X																							

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:38

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 2PPB	DAY ON TEST	0 0																	
		7 7																	
		6 6																	
		2 1 2 2 1 3 2 3 2 2 2 2 3 2 2 2 2 2 2 3 1																	
		0 0																	
		0 0																	
		6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7																	
		3 3 7 7 8 3 3 3 3 3 3 3 3 3 3 3 8 8 8 8 8 8																	
		3 4 8 9 0 0 1 2 3 4 5 6 0 1 2 3 4 5 6 0 1 2																	

*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Sarcoma		X																		1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Hepatocellular Adenoma																				3
Mesentery																				1
Oral Mucosa																				2
Sarcoma																				1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Endocardium, Schwannoma Malignant		X																		2

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:38

First Dose M/F: NA / NA

Lab: NCTR

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

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																			1
Adrenal Medulla	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	48
Pheochromocytoma Benign													X						2
Pheochromocytoma Complex																			1
Pheochromocytoma Malignant																			1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma	X	X	X	X	X	X	X					X	X	X					24
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
C Cell, Carcinoma		X																	1

General Body System

NONE

Genital System

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Penis																			1
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Squamous Cell Carcinoma							X												5

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:38

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male
F1 2PPB

DAY ON TEST	ANIMAL ID																		*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	2	1	2	2	1	3	2	3	2	2	2	2	3	2	2	2	2	3	
Prostate, Dorsal/Lateral Lobe																			50
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	44
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hematopoietic System																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Lymph Node		+	+			+	+	+			+	+							16
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Thymus	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	44
Integumentary System																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Fibroadenoma	X	X																	3
Fibroma			X			X													3
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basal Cell Adenoma																			1
Keratoacanthoma																			3
Squamous Cell Carcinoma																			1
Musculoskeletal System																			

* ..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: 99920-94

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: 13:26:39

First Dose M/F: NA / NA

Lab: NCTR

* ..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

| - Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:39

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male
F1 2PPB

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
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	2	1	2	2	1	3	2	3	2	2	2	2	3	2	2	2	2	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*TOTALS

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Bilateral, Renal Tubule, Carcinoma		X																1
Urethra																		2
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
SYSTEMIC LESIONS																		
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Granulocytic																		2

* ..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: 99920-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Time Report Requested: 13:26:39

CAS Number: 57-63-6

CAS Number: 57-63-6

First Dose M/F: NA / NA

Lab: NCTR

Alimentary System

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94

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

Endocrine System

General Body System

Tissue NOS	+
Lipoma	X

Genital System

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94
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: 13:26:40

First Dose M/F: NA / NA

Lab: NCTR

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:40

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 10PPB	DAY ON TEST	Neoplasms by Individual Animal (Systemic Lesions Abridged)																				
		Systemic Lesions Abridged																				
		Number of Animals with Tissue Examined Microscopically																				
		Number of Animals with Tumor																				
		Total Animals with Tissue Examined Microscopically																				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		4	4	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
		6	9	5	6	9	0	0	1	2	3	3	6	6	8	9	0	3	3	4	5	
		7	4	2	2	6	2	2	5	4	2	3	7	9	8	6	9	7	7	4	6	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	4	
		4	5	8	8	0	3	4	4	5	6	7	7	2	3	6	8	1	5	6	8	
		9	9	8	8	3	5	6	9	6	8	2	9	6	3	4	7	0	9	1	3	
		X																				
Fibroma		X																				
Hemangioma																					X	
Keratoacanthoma																					X	
Sarcoma																						
Squamous Cell Papilloma																						
Musculoskeletal System																						
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																					+	
Nervous System																						
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Granular Cell Tumor Malignant																					X	
Peripheral Nerve																					+	
Spinal Cord																					A	
Respiratory System																						
Lung		+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	
Carcinoma, Metastatic, Adrenal Cortex																					X	
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Schwannoma Malignant																					X	
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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

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

Date Report Requested: 10/23/2014
 Time Report Requested: 13:26:40
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Male F1 10PPB	DAY ON TEST	0 0																	
		7 7																	
ANIMAL ID	5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																		
	8 8 8 1 1 1 1 2 2 2 2 2 2 2 2 2 3 3 3 3 3																		
0 0																			
0 0																			
5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																			
8 8 8 3 4 4 4 4 8 8 8 8 8 9 4 4 4 9 9 9 9																			
5 6 7 9 0 1 2 3 6 7 8 9 0 3 4 5 4 5 5 6																			

*TOTALS

Alimentary System

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

Cardiovascular System

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

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:40

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 10PPB	DAY ON TEST	0 0																		
		7 7																		
		5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																		
		8 8 8 1 1 1 1 1 2 2 2 2 2 2 2 2 2 3 3 3 3																		
		0 0																		
ANIMAL ID		0 0																		
		0 0																		
		5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																		
		8 8 8 3 4 4 4 4 8 8 8 8 8 9 4 4 4 9 9 9 9																		
		5 6 7 9 0 1 2 3 6 7 8 9 0 3 4 5 4 5 5 6																		
		*TOTALS																		

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma					X						X										2
Carcinoma																					2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Pheochromocytoma Benign																			X		4
Pheochromocytoma Complex																					1
Pheochromocytoma Malignant												X	X								2
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	46	
Adenoma																			X		1
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Adenoma		X	X	X					X	X	X							X	X	X	28
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
C Cell, Adenoma																					1
Follicular Cel, Adenoma					X																1

General Body System

Tissue NOS	+																				1
Lipoma																					1

Genital System

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
-------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:40

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 10PPB	DAY ON TEST	ANIMAL ID																		*TOTALS	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Squamous Cell Carcinoma																				5	
Prostate, Dorsal/Lateral Lobe																				50	
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Rete Testes	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	46	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Carcinoma																				1	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic System																					
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Lymph Node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	16	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
Sarcoma																				1	
Integumentary System																					
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Fibroadenoma																				1	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basal Cell Adenoma								X												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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:41

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 10PPB	DAY ON TEST																			*TOTALS
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		8	8	8	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3
Fibroma																				1
Hemangioma																				1
Keratoacanthoma																				1
Sarcoma																				1
Squamous Cell Papilloma																				X
Musculoskeletal System																				1
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																				1
Nervous System																				
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Granular Cell Tumor Malignant																				1
Peripheral Nerve																				1
Spinal Cord																				0
Respiratory System																				
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Carcinoma, Metastatic, Adrenal Cortex																				1
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Schwannoma Malignant																				1
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

* ..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: 99920-94

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: 13:26:41

First Dose M/F: NA / NA

Lab: NCTR

Special Senses System

Schwannoma Malignant 1

Schwannoma Malignant 1

Urinary System

SYSTEMIC LESIONS

Mesothelioma Benign 2

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Time Report Requested: 13:26:41

CAS Number: 57-63-6

First Dose M/F: NA / NA

Lab: NCTR

Alimentary System

X

Cardiovascular System

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:41

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 50PPB	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
		2	2	4	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
		3	5	1	0	8	3	4	5	6	8	8	8	0	0	3	5	5	5	5	5	5	5	5
		3	8	7	0	5	6	7	3	1	2	5	9	2	3	7	0	6	6	6	6	7	7	7
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prostate, Ventral Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Rete Testes		+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	
Seminal Vesicle		A	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma																								
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Seminoma Benign																								
Hematopoietic System																								
Bone Marrow		A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node																								
Lymph Node, Mandibular		A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric		A	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen		A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus		A	A	+	+	+	+	M	+	+	I	+	+	+	+	M	+	+	+	M	+	+	+	
Sarcoma																								
Integumentary System																								
Mammary Gland		A	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Fibroadenoma																			X					
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibroma																				X				
Keratoacanthoma																								
Schwannoma Malignant																				X				

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:42

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 50PPB	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	6	6	6	6	6	6	6	6	6	6	6	6	5
		8	8	8	8	8	2	1	1	1	2	2	2	2	2	2	2	3	6
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	8	8
		9	9	9	9	0	0	4	4	5	5	9	9	9	9	4	5	0	0
		4	5	6	7	4	6	8	9	0	1	5	6	7	8	9	9	0	1

*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Hepatocellular Carcinoma																			1
Mesentery																			1
Oral Mucosa							+												9
Squamous Cell Carcinoma							X												7
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Schwannoma Benign																		X	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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
 Time Report Requested: 13:26:42
 First Dose M/F: NA / NA
 Lab: NCTR

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

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma												X									1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Pheochromocytoma Benign																					1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Adenoma												X									2
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	46	
Adenoma																					1
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Adenoma	X	X	X	X	X	X	X								X	X	X			16	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Follicular Cel, Carcinoma															X						1

General Body System

NONE

Genital System

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Squamous Cell Carcinoma	X																			2
Prostate, Dorsal/Lateral Lobe		+	+																	50

* ..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: 99920-94

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: 13:26:42

First Dose M/F: NA / NA

Lab: NCTR

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:42

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F1 50PPB	DAY ON TEST	0 0																																			
		7 7																																			
ANIMAL ID	5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 5	8 8 8 8 8 8 2 1 1 1 2 2 2 2 2 2 2 2 3 6																																			
	0 0	0 0																																			
*TOTALS																																					
Musculoskeletal System																																					
Bone																																					
Bone, Femur	+	+ + + + + + + + + + + + + + + + + + + +																																			
Skeletal Muscle		0 0																																			
Nervous System																																					
Brain, Brain Stem	+	+ + + + + + + + + + + + + + + + + + + +																																			
Brain, Cerebellum	+	+ + + + + + + + + + + + + + + + + + + +																																			
Brain, Cerebrum	+	+ + + + + + + + + + + + + + + + + + + +																																			
Peripheral Nerve																																					
Spinal Cord		0 0																																			
Respiratory System																																					
Lung	+	+ + + + + + + + + + + + + + + + + + + +																																			
Sarcoma, Metastatic, Thymus		0 0																																			
Nose	+	+ + + + + + + + + + + + + + + + + + + +																																			
Trachea	+	+ + + + + + + + + + + + + + + + + + + +																																			
Special Senses System																																					
Eye	+	+ + + + + + + + + + + + + + + + + + + +																																			
Retrobulbar, Squamous Cell Carcinoma, Deep Invasion		0 0																																			
Harderian Gland	+	+ + + + + + + + + + + + + + + + + + + +																																			
Lacrimal Gland		0 0																																			

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:43

First Dose M/F: NA / NA

Lab: NCTR

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

*TOTALS

Zymbal's Gland	2
Carcinoma	1
Squamous Cell Carcinoma	1
Urinary System	
Kidney	49
Bilateral, Renal Tubule, Carcinoma	1
Mesenchymal Tumor Malignant	1
Urethra	2
Urinary Bladder	49
SYSTEMIC LESIONS	
Multiple Organ	50
Lymphoma Malignant	2

* ..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: 99920-94
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: 13:26:43

First Dose M/F: NA / NA

Lab: NCTR

Alimentary System

Atrial Fibrillation

* ..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: 99920-94
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: 13:26:43

First Dose M/F: NA / NA

Lab: NCTR

Endocrine System

General Body System

Tissue NOS +
Schwannoma Malignant X

Genital System

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 13:26:43
First Dose M/F: NA / NA
Lab: NCTR

CD Rat Male
F1/2PPB TO CTL

DAY ON TEST	CD Rat Male																			
	F1/2PPB TO CTL																			
	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	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	8	1	3	4	6	0	1	1	2	4	4	5	8	9	1	2	3	3	4	5
ANIMAL ID	5	0	4	9	9	3	0	9	3	2	6	6	1	5	9	5	7	6	7	7
Squamous Cell Carcinoma, Metastatic, Preputial Gland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																				X
Squamous Cell Carcinoma																				X
Prostate, Dorsal/Lateral Lobe	+																			
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Seminal Vesicle	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sarcoma																				X
Hematopoietic System																				
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node	+																			
Squamous Cell Carcinoma, Metastatic, Preputial Gland																				X
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+
Thymoma Benign																				X
Integumentary System																				

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:44

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/2PPB TO CTL**

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
	4	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
	8	1	3	4	6	0	1	1	2	4	4	5	8	9	1	2	3	3	4	5	5
	5	0	4	9	9	3	0	9	3	2	6	6	1	5	9	5	7	6	7	7	8
Mammary Gland	+	+	+	+	+	+	+	M	M	A	+	+	+	+	+	+	M	M	+	+	
Adenoma											X										
Fibroma												X									
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Keratoacanthoma								X													
Lipoma																					X
Sarcoma											X										
Sebaceous Gl, Adenoma																					X
Squamous Cell Papilloma																					X
Musculoskeletal System																					
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle								+													
Nervous System																					
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Reticulosis Malignant																					X
Peripheral Nerve								+													
Spinal Cord									A												
Respiratory System																					
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* ..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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
 Time Report Requested: 13:26:44
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Male
F1/2PPB TO CTL

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

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenocarcinoma																			2
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cholangiocarcinoma																			1
Mesentery																			1
Oral Mucosa	+																		5
Squamous Cell Carcinoma																			3
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																			1

Cardiovascular System

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

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:44

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/2PPB TO CTL**

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

TOTALS*Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Bilateral, Pheochromocytoma Benign																			1
Pheochromocytoma Benign							X				X		X						3
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma		X	X			X													3
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma		X	X			X	X	X	X	X	X	X							29
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C Cell, Adenoma					X														3
C Cell, Carcinoma																			2

General Body System

Tissue NOS																			1
Schwannoma Malignant																			1

Genital System

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:44

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/2PPB TO CTL**

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

***TOTALS**Squamous Cell Carcinoma, Metastatic,
Preputial Gland

1

Preputial Gland

50

Adenoma

1

Squamous Cell Carcinoma

4

Prostate, Dorsal/Lateral Lobe

50

Prostate, Ventral Lobe

50

Rete Testes

M

Seminal Vesicle

47

Testes

49

Sarcoma

50

Hematopoietic System

Bone Marrow

50

Lymph Node

19

Squamous Cell Carcinoma, Metastatic,
Preputial Gland

1

Lymph Node, Mandibular

50

Lymph Node, Mesenteric

50

Spleen

50

Thymus

46

Thymoma Benign

1

Integumentary System

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:44

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/2PPB TO 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	7	7	7
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	2	2	2	2	1	3	2	2	2	2	2	3	2	2	2	2	2	2	1
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Adenoma																				1
Fibroma																				1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Keratoacanthoma																				1
Lipoma																				1
Sarcoma																				1
Sebaceous GI, Adenoma																				1
Squamous Cell Papilloma																				2
MUSCULOSKELETAL SYSTEM																				
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																				2
NERVOUS SYSTEM																				
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Reticulosis Malignant																				1
Peripheral Nerve																				2
Spinal Cord																				0
RESPIRATORY SYSTEM																				
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:45

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/2PPB 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
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	2	2	2	2	1	3	2	2	2	2	2	3	2	2	2	2	1
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
	3	8	8	8	8	8	3	3	3	4	4	4	8	8	8	9	9	9
	8	1	2	3	4	5	7	8	9	0	1	2	7	8	9	0	1	2
																		3

***TOTALS**

Alveolar/Bronchiolar Carcinoma

1

Nose

49

Trachea

50

Special Senses System

Eye

49

Harderian Gland

50

Squamous Cell Carcinoma, Deep Invasion

1

Zymbal's Gland

1

Adenoma

1

Urinary System

Kidney

49

Bilateral, Renal Tubule, Adenoma

1

Mesenchymal Tumor Malignant

1

Renal Tubule, Adenoma

2

Renal Tubule, Carcinoma

1

Urethra

1

Urinary Bladder

49

SYSTEMIC LESIONS

Multiple Organ

50

Lymphoma Malignant

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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 13:26:45
First Dose M/F: NA / NA
Lab: NCTR

CD Rat Male
F1/10PPB TO CTL

DAY ON TEST	CD Rat Male																			
	F1/10PPB TO CTL																			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	3	4	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7
1	4	8	5	1	1	7	5	6	7	2	3	2	3	4	4	5	5	5	5	5
9	1	6	4	2	1	6	9	9	7	5	0	9	6	3	6	6	6	6	7	7
7	3	2	6	9	0	3	7	4	1	6	7	8	5	0	4	5	7	8	9	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	2	2	2	3	3	3	3	3	4	4	4	4	4
0	1	3	4	6	7	1	1	3	5	3	4	4	6	8	8	9	3	3	4	9
7	3	2	6	9	0	3	7	4	1	6	7	8	5	0	4	5	7	8	9	0

Endocrine System

Adrenal Cortex	+	+	+	A	+	A	A	+	+	+	+	+	A	A	+	+	+	+	+	+
Adenoma																				
Adrenal Medulla	+	+	+	A	+	A	A	+	+	+	+	+	A	+	+	+	+	+	+	+
Pheochromocytoma Benign																				
Islets, Pancreatic	+	+	A	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																				X
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M
Adenoma																				X
Pituitary Gland	+	+	+	M	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma								X	X	X	X	X	X	X	X	X		X	X	X
Thyroid Gland	+	+	A	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+
C Cell, Adenoma																				X

General Body System

NONE																				
Genital System																				
Coagulating Gland	+	+	A	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+
Carcinoma, Metastatic, Prostate, Dorsal/Lateral Lobe							X													
Carcinoma, Metastatic, Uncertain Primary Site														X						
Ductus Deferens								+												

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:45

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/10PPB TO CTL**

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	
	2	2	3	4	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	
	1	4	8	5	1	1	7	5	6	7	2	3	2	3	4	4	5	5	5	5	
	9	1	6	4	2	1	6	9	9	7	5	0	9	6	3	6	6	6	6	8	
Epididymis	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Penis																					
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Carcinoma																			X		
Prostate, Dorsal/Lateral Lobe	+	+			A																+
Carcinoma																					
Carcinoma, Metastatic, Uncertain Primary Site																					
Prostate, Ventral Lobe	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma																					X
Rete Testes	+	+	+	A	+	A	+	+	+	+	+	M	M	+	+	M	+	+	+	M	
Seminal Vesicle	+	+	A	A	+	+	+	+	+	+	A	A	A	+	A	A	+	+	+	+	
Carcinoma, Metastatic, Prostate, Dorsal/Lateral Lobe																				X	
Carcinoma, Metastatic, Uncertain Primary Site																				X	
Testes	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic System																					
Bone Marrow	+	+	A	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node	+																				
Lymph Node, Mandibular	+	+	A	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	A	A	+	A	A	+	+	+	A	+	A	+	+	+	+	+	+	+	
Spleen	+	+	A	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* ..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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
 Time Report Requested: 13:26:46
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Male
F1/10PPB TO CTL

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
2	2	2	3	4	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7
1	4	8	5	1	1	7	5	6	7	2	3	2	3	4	4	4	5	5	5	5	5
9	1	6	4	2	1	6	9	9	7	5	0	9	6	3	6	6	6	6	7	7	8
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	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	3	3	4	4	4	4	4	4	5
0	1	3	4	6	7	1	1	3	5	3	4	4	6	8	8	9	3	3	4	9	8
7	3	2	6	9	0	3	7	4	1	6	7	8	5	0	4	5	7	8	9	0	1
Thymus	+	+	A	A	M	A	M	M	+	+	+	+	+	+	+	+	+	+	+	M	+

Integumentary System

Mammary Gland	+	+	A	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																	X				
Fibroadenoma																			X		
Skin	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibroma																X					
Keratoacanthoma																	X			X	
Prepuce, Keratoacanthoma																		X			
Squamous Cell Carcinoma																					X
Squamous Cell Papilloma																					

Musculoskeletal System

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Nervous System

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

Respiratory System

Lung	+	+	A	A	+	A	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+
Nose	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	A	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Time Report Requested: 13:26:46

CAS Number: 57-63-6

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/10PPB TO CTL**

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				
	2	2	3	4	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7				
	1	4	8	5	1	1	7	5	6	7	2	3	2	3	4	4	5	5	5	5	5				
	9	1	6	4	2	1	6	9	9	7	5	0	9	6	3	6	6	6	6	7	7				
Trachea	+	+	A	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Special Senses System

Eye	+	+	A	A	+	A	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland	+	+	A	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lacrimal Gland																										
Urinary System																										
Kidney	+	+	A	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urethra																										
Urinary Bladder	+	A	A	A	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	
SYSTEMIC LESIONS																										
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant	X	X																								

* ..Total animals with tissue examined microscopically; Total animals with tumor

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+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:46

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/10PPB TO CTL**

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

TOTALS*Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	41
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	41
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Hepatocellular Carcinoma	X																	1
Mesentery		+																2
Carcinoma, Metastatic, Uncertain Primary																		1

Site

Oral Mucosa																			1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45	

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:46

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/10PPB 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	7
5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
8	8	8	8	8	1	1	1	1	2	2	2	2	3	2	2	3	3	3
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	8	9	9	9	9	4	4	4	4	9	9	9	9	4	4	4	9	9
	9	0	1	2	3	4	5	6	7	1	2	3	4	6	7	8	7	8

TOTALS*Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Adenoma					X													1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	45
Pheochromocytoma Benign												X						1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Adenoma												X						2
Parathyroid Gland	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	M	+	44
Adenoma												X						1
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Pars Distalis, Adenoma	X	X	X	X					X	X	X			X	X	X		28
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
C Cell, Adenoma	X																	1

General Body System

NONE

Genital System

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Carcinoma, Metastatic, Prostate, Dorsal/Lateral Lobe																		1
Carcinoma, Metastatic, Uncertain Primary Site																		1
Ductus Deferens																		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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:46

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/10PPB TO 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	7	7	7
	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	8	8	8	8	8	1	1	1	1	2	2	2	2	3	2	2	3	3	3	3
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Penis																				1
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Squamous Cell Carcinoma																				3
Prostate, Dorsal/Lateral Lobe		+			+															49
Carcinoma																				1
Carcinoma, Metastatic, Uncertain Primary Site																				1
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Carcinoma																				1
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Carcinoma, Metastatic, Prostate, Dorsal/Lateral Lobe																				1
Carcinoma, Metastatic, Uncertain Primary Site																				1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Hematopoietic System																				
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Lymph Node	+	+																		14
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47

* ..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: 99920-94

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: 13:26:46

First Dose M/F: NA / NA

Lab: NCTR

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

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A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

| ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:46

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/10PPB 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
	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6
	8	8	8	8	8	1	1	1	1	2	2	2	2	3	2	2	3	3
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7
	8	9	9	9	9	4	4	4	4	9	9	9	9	4	4	4	9	9
	9	0	1	2	3	4	5	6	7	1	2	3	4	6	7	8	7	8

***TOTALS**

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Special Senses System																		
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Lacrimal Gland																		1
Urinary System																		
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Urethra																		5
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45
SYSTEMIC LESIONS																		
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymphoma Malignant																		2

* ..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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 13:26:46
First Dose M/F: NA / NA
Lab: NCTR

CD Rat Male
F1/50PPB TO CTL

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

Alimentary System

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

Cardiovascular System

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

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:47

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male
F1/50PPB TO CTL

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

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																				X
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pheochromocytoma Benign																				
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X	X
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
C Cell, Adenoma																				X
C Cell, Carcinoma																				

General Body System

NONE

Genital System

Coagulating Gland	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Carcinoma																				
Prostate, Dorsal/Lateral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:47

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/50PPB TO CTL**

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
	4	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
	6	5	7	9	0	0	1	4	4	5	7	1	3	3	4	5	5	5	5	5
	9	6	3	4	1	1	9	6	6	4	5	5	8	8	6	0	2	6	6	7
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rete Testes	M	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+
Seminal Vesicle	+	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic System																				
Bone Marrow	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node											+	+	+							+
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemangiosarcoma											X									
Thymus	+	+	+	+	M	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+
Integumentary System																				
Mammary Gland	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+
Adenoma																				X
Fibroadenoma															X					
Fibroma																				
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basal Cell Adenoma															X					
Keratoacanthoma																				
Osteosarcoma							X													
Prepuce, Squamous Cell Carcinoma																			X	

* ..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: 99920-94

P07: 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: 13:26:48

Route: DOSED FEED

CAS Number: 57-63-6

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:48

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male
F1/50PPB TO CTL

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

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	45
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenocarcinoma																			1
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Cholangiocarcinoma	X																		1
Hepatocellular Adenoma																			1
Hepatocellular Carcinoma																			1
Oral Mucosa																			6
Squamous Cell Carcinoma																			4
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Tongue																			1

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

* ..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: 99920-94

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:** 13:26:48**First Dose M/F:** NA / NA**Lab:** NCTR**CD Rat Male
F1/50PPB 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	
ANIMAL ID	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	8	8	8	8	1	1	1	1	1	2	2	2	2	2	3	2	2	2	2	2	6	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Endocrine System																						
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma																						1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pheochromocytoma Benign																						X
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Pars Distalis, Adenoma																						
Thyroid Gland	X	X	X	X						X	X	X	X	X	X	X	X	X	X	X	24	
C Cell, Adenoma																						1
C Cell, Carcinoma																						1
General Body System																						
NONE																						
Genital System																						
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Squamous Cell Carcinoma																						X
Prostate, Dorsal/Lateral Lobe	+	+																				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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

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

Date Report Requested: 10/23/2014
 Time Report Requested: 13:26:48
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Male F1/50PPB 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
		5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	5
		8	8	8	8	1	1	1	1	2	2	2	2	2	3	2	2	2	6
Prostate, Ventral Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Rete Testes		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	46
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hematopoietic System																			
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Lymph Node		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hemangiosarcoma																			1
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Integumentary System																			
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Adenoma																	X		2
Fibroadenoma																			1
Fibroma											X								1
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basal Cell Adenoma																			2
Keratoacanthoma			X																1
Osteosarcoma																			1
Prepuce, Squamous Cell Carcinoma																			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: 99920-94
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

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

Date Report Requested: 10/23/2014
Time Report Requested: 13:26:48
First Dose M/F: NA / NA
Lab: NCTR

CD Rat Male
F1/50PPB TO CTL

DAY ON TEST	0 0																						
	7 7																						
	5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 5																						
	8 8 8 8 1 1 1 1 1 2 2 2 2 2 2 3 2 2 2 2 6																						
	0 0																						
ANIMAL ID	0 0	0 0	5 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 8	9 0 0 0 0 5 5 5 5 0 0 0 0 0 0 5 5 5 5 5 0	9 0 0 1 2 2 3 4 5 0 1 2 3 4 1 2 3 4 5 2 3 4 2	*TOTALS																	
Squamous Cell Carcinoma																			1				
Musculoskeletal System																							
Bone																			1				
Cranium, Nerve, Squamous Cell Carcinoma, Deep Invasion																			1				
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Skeletal Muscle																			1				
Nervous System																							
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Astrocytoma Malignant																			1				
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Astrocytoma Malignant																			1				
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Astrocytoma Malignant																			1				
Granular Cell Tumor Benign																			1				
Respiratory System																							
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Special Senses System																							
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48				

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:48

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F1/50PPB TO 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	7	7	
5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	
8	8	8	8	1	1	1	1	1	2	2	2	2	2	3	2	2	2	6	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	
9	0	0	0	5	5	5	5	5	0	0	0	0	0	5	5	5	5	0	
9	0	1	2	2	3	4	5	6	0	1	2	3	4	1	2	3	4	2	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Squamous Cell Carcinoma, Deep Invasion																		1	
Lacrimal Gland																		1	
Urinary System																			
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Bilateral, Renal Tubule, Adenoma																		2	
Sarcoma																		1	
Urethra																		1	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
SYSTEMIC LESIONS																			
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: 99920-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Time Report Requested: 13:26:48

CAS Number: 57-63-6

First Dose M/F: NA / NA

Lab: NCT

CD Rat Female F1 OPPB	DAY ON TEST	TEST RESULTS																									
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	
		2	3	6	9	9	1	3	4	4	5	6	6	7	7	7	7	8	9	0	1	1	2	2	5	5	5
		9	9	8	5	8	4	1	5	9	3	9	8	2	5	9	9	6	0	0	2	3	7	0	6	6	7
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	4	4	4
		7	8	0	3	4	5	7	8	0	1	3	3	4	4	5	6	7	9	0	1	2	2	3	0	4	5
		7	1	9	7	5	7	6	8	2	0	0	1	0	1	2	4	8	5	4	2	5	6	7	5	6	7

Alimentary System

Cardiovascular System

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:49

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 0PPB	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
		2	3	6	9	9	1	3	4	4	5	6	6	7	7	7	8	9	0	0	1	1	2	2	5	5
		9	9	8	5	8	4	1	5	9	3	9	8	2	5	9	9	6	0	0	2	3	7	0	0	6
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	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	2	2	2	2	2	2	2	2	2	2	3	3	3	3	4	4	4
		7	8	0	3	4	5	7	8	0	1	3	3	3	4	4	5	5	6	7	9	0	1	2	2	0
		7	1	9	7	5	7	6	8	2	0	0	1	0	1	2	4	8	5	4	2	5	3	8	9	5

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																											
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pheochromocytoma Benign																										X	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																											
Parathyroid Gland	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																										X	
Follicular Cel, Adenoma																											

General Body System

NONE																											
Genital System																											
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	
Squamous Cell Papilloma																											
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Sertoli Cell Tumor Benign																											
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* ..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: 99920-94
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: 13:26:49

First Dose M/F: NA / NA

Lab: NCTR

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:49

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 0PPB	DAY ON TEST	Systemic Lesions																						
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
		2	3	6	9	9	1	3	4	4	5	6	6	7	7	7	8	9	0	0	1	1	2	
		9	9	8	5	8	4	1	5	9	3	9	8	2	5	9	9	6	0	0	2	3	7	
		7	8	0	3	4	5	7	8	0	1	3	3	3	4	4	5	5	6	7	9	0	1	
		7	1	9	7	5	7	6	8	2	0	0	1	0	1	2	4	8	5	4	2	5	3	
		7	8	0	3	4	5	7	8	0	1	3	3	3	4	4	5	5	6	7	9	0	1	
		7	1	9	7	5	7	6	8	2	0	0	1	0	1	2	4	8	5	4	2	5	3	
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																			+					
Nervous System																								
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Granular Cell Tumor Benign															X									
Peripheral Nerve																				+				
Spinal Cord																				A				
Respiratory System																								
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Special Senses System																								
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urinary System																								
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SYSTEMIC LESIONS																								

* ..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: 99920-94

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: 13:26:50

First Dose M/F: NA / NA

Lab: NCTR

Multiple Organ

+

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

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

Date Report Requested: 10/23/2014
 Time Report Requested: 13:26:50
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Female F1 0PPB	DAY ON TEST	0 0																		
		7 7																		
		5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																		
		7 8 8 8 8 9 1 1 1 2 2 3 3 3 3 3 3 3 3 2 2																		
		0 0																		
ANIMAL ID		0 0																		
		0 0																		
		5 5 5 5 5 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7																		
		0 5 5 5 5 0 0 1 5 0 0 5 5 5 5 5 5 6 6 6 6 6																		
		9 4 5 6 7 7 8 0 7 8 9 5 6 7 8 9 0 1 2 3																		

*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51

Cholangiocarcinoma

Hepatocellular Adenoma

X

1

1

Mesentery

2

Oral Mucosa

3

Squamous Cell Carcinoma

3

Pancreas

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Salivary Glands

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Stomach, Forestomach

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Squamous Cell Papilloma

X

1

Stomach, Glandular

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Cardiovascular System

Blood Vessel

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Heart

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:50

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 0PPB	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
ANIMAL ID	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	7	8	8	8	8	9	1	1	1	2	2	3	3	3	3	3	3	3	2	2
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
	0	5	5	5	5	0	0	1	5	0	0	5	5	5	5	5	6	6	6	6
	9	4	5	6	7	7	8	0	7	8	9	5	6	7	8	9	0	1	2	3
	*TOTALS																			

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Adenoma																				X	1
Adrenal Medulla	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	48
Pheochromocytoma Benign																				X	2
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Adenoma																				X	1
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	48	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
Pars Distalis, Adenoma	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	38	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51
C Cell, Adenoma																				X	2
Follicular Cel, Adenoma																					1

General Body System

NONE

Genital System

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Squamous Cell Papilloma	X																				1
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Sertoli Cell Tumor Benign																				X	1
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	

* ..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: 99920-94
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 13:26:50
First Dose M/F: NA / NA
Lab: NCTR

CD Rat Female F1 0PPB	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	
		5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	
		7	8	8	8	8	9	1	1	1	2	2	3	3	3	3	3	3	3	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		5	5	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	
		0	5	5	5	5	0	0	1	5	0	0	5	5	5	5	6	6	6	
		9	4	5	6	7	7	8	0	7	8	9	5	6	7	8	9	0	1	
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Endometrium, Adenoma																				1
Polyp Stromal																				2
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Hematopoietic System																				
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Lymph Node			+																	16
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		51
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		51
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		51
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		51
Integumentary System																				
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		51
Adenocarcinoma																				5
Adenocarcinoma, Multiple																				3
Fibroadenoma								X	X	X										18
Fibroadenoma, Multiple								X	X	X										14
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		51
Sebaceous Gl, Carcinoma																				1
Squamous Cell Papilloma																				1
Musculoskeletal System																				

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:50

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 0PPB	DAY ON TEST	Day On Test																		*TOTALS
		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	
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Skeletal Muscle																				1
Nervous System																				
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Granular Cell Tumor Benign																				1
Peripheral Nerve																				1
Spinal Cord																				0
Respiratory System																				
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Special Senses System																				
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Urinary System																				
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	51	
SYSTEMIC LESIONS																				

* ..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: 99920-94

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: 13:26:50

First Dose M/F: NA / NA

Lab: NCTR

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Time Report Requested: 13:26:50

CAS Number: 57-63-6

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 2PPB	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	3	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	8	4	6	9	0	6	9	0	2	4	4	5	6	6	7	8	8	9	0	0	1	2	3	2	3
	7	9	8	9	4	3	5	4	2	4	4	3	2	7	7	8	4	6	1	2	5	2	9	0	8
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	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	2	2	2	2	2	3	3	3	3	3	3	4
	0	2	5	6	6	6	0	3	3	5	6	9	9	0	2	2	5	6	6	7	0	1	4	4	4
	2	3	1	1	4	4	4	4	6	1	9	0	4	9	7	2	9	0	0	7	6	2	9	3	8

Alimentary System

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:51

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 2PPB	DAY ON TEST	Neoplasms by Individual Animal (Systemic Lesions Abridged)																						
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Endocardium, Schwannoma Malignant																								X
Endocrine System																								
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																								X
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																								
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																								X
Carcinoma, Metastatic, Thyroid Gland																								X
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma																								X X
Pars Distalis, Carcinoma																								X
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, C Cell, Carcinoma																								X
C Cell, Adenoma																								X X
General Body System																								
NONE																								
Genital System																								
Clitoral Gland		+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:51

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 2PPB	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	3	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		8	4	6	9	0	6	9	9	0	2	4	4	5	6	6	7	8	8	9	0	0	1	2
		7	9	8	9	4	3	5	4	2	4	4	3	2	7	7	8	4	6	1	2	5	2	9
Carcinoma																								
Squamous Cell Carcinoma																								
Ovary																								
Sertoli Cell Tumor Benign																								
Oviduct																								
Uterus																								
Endometrium, Adenocarcinoma																								
Leiomyoma																								
Leiomyosarcoma																								
Polyp Stromal																								
Vagina																								
Polyp																								
Hematopoietic System																								
Bone Marrow																								
Lymph Node																								
Lymph Node, Mandibular																								
Lymph Node, Mesenteric																								
Spleen																								
Thymus																								
Integumentary System																								
Mammary Gland																								
Adenocarcinoma																								
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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:51

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 2PPB	DAY ON TEST																							
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adenocarcinoma, Multiple		X																						
Fibroadenoma			X																					
Fibroadenoma, Multiple				X																				
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Sarcoma		X																						
Subcut Tiss, Leiomyosarcoma, Metastatic,																		X						
Uterus																								
MUSCULOSKELETAL System																								X
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nervous System																								
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma, Metastatic, Pituitary Gland																								X
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Respiratory System																								
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Alveolar/Bronchiolar Adenoma																								
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Special Senses System																								
Ear																								+

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:51

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 2PPB	DAY ON TEST	Neoplasms by Individual Animal (Systemic Lesions Abridged)																						
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	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	2	2	2	2	2	3	3	3	3	4
		0	2	5	6	6	0	3	3	5	6	9	9	0	2	2	5	6	6	7	0	1	4	4
		2	3	1	1	4	4	4	6	1	9	0	4	9	7	9	0	0	7	9	6	7	6	2
Neural Crest Tumor																								X
Eye																								+
Harderian Gland																								+
Urinary System																								+
Kidney																								+
Bilateral, Renal Tubule, Carcinoma																								X
Urinary Bladder																								M
SYSTEMIC LESIONS																								+
Multiple Organ																								+

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:51

First Dose M/F: NA / NA

Lab: NCTR

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

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leiomyosarcoma, Metastatic, Uterus																				1
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hepatocellular Adenoma																				1
Mesentery																				2
Leiomyosarcoma, Metastatic, Uterus																				1
Oral Mucosa																				1
Squamous Cell Carcinoma																				1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Acinar Cell, Adenoma																				1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiovascular System																				
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:52

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 2PPB	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	7	
		5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	
		7	7	7	7	7	7	8	8	2	1	2	3	3	2	2	2	2	2	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		4	4	4	4	4	5	5	5	6	6	6	7	7	7	7	7	7	7	
		6	6	6	6	6	1	1	5	5	1	1	5	1	1	1	6	6	6	
		0	1	2	3	4	0	1	8	9	1	2	8	0	1	2	3	4	5	
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Endocardium, Schwannoma Malignant																				1
Endocrine System																				
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																				2
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																				1
Parathyroid Gland		+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	M	47
Adenoma																				1
Carcinoma, Metastatic, Thyroid Gland																				1
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	35
Pars Distalis, Carcinoma																				1
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Bilateral, C Cell, Carcinoma																				1
C Cell, Adenoma																				3
General Body System																				
NONE																				
Genital System																				
Clitoral Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:52

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 2PPB	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	8	8	2	1	2	3	3	2	2	2	2	
Carcinoma		X																		1
Squamous Cell Carcinoma			X																	1
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Sertoli Cell Tumor Benign																				1
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Endometrium, Adenocarcinoma																				1
Leiomyoma																				1
Leiomyosarcoma																				1
Polyp Stromal	X			X																4
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Polyp																			X	1
Hematopoietic System																				
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node																				14
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	44
Integumentary System																				
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenocarcinoma																			X	9

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:52

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 2PPB	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	8	8	2	1	2	3	3	2	2	2	2	
Adenocarcinoma, Multiple		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Fibroadenoma		X		X		X	X						X							14
Fibroadenoma, Multiple		X						X		X	X	X				X	X	X	X	14
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Sarcoma																				1
Subcut Tiss, Leiomyosarcoma, Metastatic,																				1
Uterus																				
MUSCULOSKELETAL System																				
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Nervous System																				
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Carcinoma, Metastatic, Pituitary Gland																				1
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Respiratory System																				
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Alveolar/Bronchiolar Adenoma																				1
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Special Senses System																				
Ear																				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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:52

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 2PPB	DAY ON TEST	Neoplasms by Individual Animal (Systemic Lesions Abridged)																	
		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	8	8	2	1	2	3	3	2	2	2	2
Neural Crest Tumor		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Urinary System																			
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Bilateral, Renal Tubule, Carcinoma																			2
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
SYSTEMIC LESIONS																			
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
*TOTALS																			

* ..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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

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

Date Report Requested: 10/23/2014
 Time Report Requested: 13:26:52
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Female F1 10 PPB	DAY ON TEST	Alimentary System																				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	3	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7
	7	9	3	5	5	5	7	7	8	8	0	3	3	4	5	6	7	7	8	8	9	0
	5	1	8	5	5	5	9	2	3	4	2	4	5	7	6	3	5	6	7	8	5	1
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3
	1	3	8	8	8	9	1	1	1	2	5	7	8	9	1	2	3	4	4	6	7	8
	7	4	3	9	3	2	5	7	0	2	5	0	1	3	5	8	4	7	9	6	2	9

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	A	+	M	+	+	+	+	+	A	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+

Hepatocellular Adenoma

X

Oral Mucosa

+

+

Squamous Cell Carcinoma

X

Pancreas

+

Salivary Glands

+

Stomach, Forestomach

+

Squamous Cell Papilloma

X

Stomach, Glandular

+

Cardiovascular System

Blood Vessel

+

Heart

+

Endocrine System

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:53

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 10 PPB	DAY ON TEST	Neoplasms by Individual Animal (Systemic Lesions Abridged)																						
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adrenal Cortex		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																								X
Adrenal Medulla		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma																								
Parathyroid Gland		+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	M
Pituitary Gland		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma												X	X	X	X	X	X	X	X	X	X	X	X	X
Thyroid Gland		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
C Cell, Adenoma																								
General Body System																								
Tissue NOS																								+
Sarcoma																								X
Genital System																								
Clitoral Gland		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Ovary		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Granulosa Cell Tumor Benign																								
Sertoli Cell Tumor Benign																								X
Oviduct		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Uterus		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Polyp Stromal																								X
Vagina		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:53

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 10 PPB	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	
		2	3	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
		7	9	3	5	5	7	7	8	8	0	3	3	4	5	6	7	7	8	8	9	0	1	2
		5	1	8	5	5	5	9	2	3	4	2	4	5	7	6	3	5	6	7	8	5	1	3
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Granular Cell Tumor Benign																								
Polyp																								
Hematopoietic System																								
Bone Marrow		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node											+													
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric		M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus		M	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	M	+	+	+	
Integumentary System																								
Mammary Gland		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma										X										X	X			
Fibroadenoma										X	X										X			
Fibroadenoma, Multiple										X		X								X	X	X	X	
Skin		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Keratoacanthoma																				+	+	+	+	
Musculoskeletal System																								
Bone, Femur		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																								+
Nervous System																								
Brain, Brain Stem		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:53

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1 10 PPB

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
	2	3	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7
	7	9	3	5	5	5	7	7	8	8	0	3	3	4	5	6	7	7	7	7
	5	1	8	5	5	5	9	2	3	4	2	4	5	7	6	3	5	6	7	8
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
Oligodendrogloma Nos																				X
Respiratory System																				
Lung	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
Nose	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
Special Senses System																				
Eye	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	A	+	+	+	+
Harderian Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
Urinary System																				
Kidney	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
Urinary Bladder	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
SYSTEMIC LESIONS																				
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* ..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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
 Time Report Requested: 13:26:53
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Female
F1 10 PPB

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

*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

Hepatocellular Adenoma

1

Oral Mucosa

4

Squamous Cell Carcinoma

1

Pancreas

49

Salivary Glands

49

Stomach, Forestomach

49

Squamous Cell Papilloma

1

Stomach, Glandular

49

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

Endocrine System

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:53

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1 10 PPB

	DAY ON TEST	ANIMAL ID																		*TOTALS
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		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	6	6	6	6	6	6	6	
		6	4	7	7	7	7	7	8	8	8	1	1	1	2	2	2	2	3	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		4	4	4	4	5	5	5	5	5	5	6	6	6	6	6	7	7	7	
		1	5	6	6	1	1	1	6	6	6	1	1	1	6	6	1	1	6	
		6	3	8	9	3	4	5	1	2	3	4	4	5	6	1	2	8	9	8
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma																				1
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Carcinoma																				1
Parathyroid Gland		+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Adenoma		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	40
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
C Cell, Adenoma																				1
General Body System																				
Tissue NOS																				1
Sarcoma																				1
Genital System																				
Clitoral Gland		+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Granulosa Cell Tumor Benign																				1
Sertoli Cell Tumor Benign																				1
Oviduct		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Polyp Stromal																				5
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:53

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1 10 PPB

DAY ON TEST	0 0																		
	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7																		
ANIMAL ID	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6																		
	6 4 7 7 7 8 8 8 8 1 1 1 2 2 2 2 2 3																		
Granular Cell Tumor Benign																			
Polyp																			
Hematopoietic System																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node		+																	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Integumentary System																			
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma		X		X															
Fibroadenoma			X	X	X	X	X	X							X			X	
Fibroadenoma, Multiple	X		X						X			X	X			X			
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Keratoacanthoma				X															
Musculoskeletal System																			
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																			
Nervous System																			
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

*TOTALS

1

1

Hematopoietic System

Bone Marrow + 49

Lymph Node + 6

Lymph Node, Mandibular + 49

Lymph Node, Mesenteric + 47

Spleen + 49

Thymus + 45

Mammary Gland + 49

Adenocarcinoma X X X X X X X X X X X X X X X X 9

Fibroadenoma X X X X X X X X X X X X X X X X 18

Fibroadenoma, Multiple X X X X X X X X X X X X X X X X 15

Skin + 49

Keratoacanthoma X 1

Musculoskeletal System

Bone, Femur + 49

Skeletal Muscle + 1

Nervous System

Brain, Brain Stem + 49

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:53

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1 10 PPB

	DAY ON TEST	ANIMAL ID																		*TOTALS
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	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	6	6	6	6	6	6	6	6	6
	6	4	7	7	7	7	7	8	8	8	8	1	1	1	2	2	2	2	2	3
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	7
	1	5	6	6	1	1	1	6	6	6	6	1	1	1	6	6	1	1	6	6
	6	3	8	9	3	4	5	1	2	3	4	4	5	6	1	2	8	9	9	8
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Oligodendrogloma Nos																				1
Respiratory System																				
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Special Senses System																				
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Urinary System																				
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
SYSTEMIC LESIONS																				
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

* ..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: 99920-94
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: 13:26:54

First Dose M/F: NA / NA

Lab: NCTR

Alimentary System

* ..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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
 Time Report Requested: 13:26:54
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Female F1 50 PPB	DAY ON TEST																							
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	2	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
		8	1	8	9	9	1	2	4	5	5	5	6	6	7	8	8	8	0	0	1	2	2	
		9	6	4	2	7	4	6	6	0	3	4	8	6	6	0	0	7	9	1	6	1	2	
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Endocrine System																								
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																								
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																								
Carcinoma																								
Parathyroid Gland		+	+	+	M	+	+	+	+	M	+	M	+	+	+	+	+	M	+	+	+	+	M	
Adenoma																								
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Pars Distalis, Carcinoma																								
Pars Nervosa, Schwannoma Malignant, Metastatic, Nose																								
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	
C Cell, Adenoma																								
General Body System																								
NONE																								
Genital System																								
Clitoral Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* ..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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
 Time Report Requested: 13:26:54
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Female F1 50 PPB	DAY ON TEST																						
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	4	4
		1	7	2	2	2	4	5	7	9	0	0	1	1	2	2	3	5	6	7	9	0	1
		8	2	3	9	3	5	0	5	3	7	2	6	3	4	6	3	5	7	1	8	4	0
Adenoma		X	X																				
Carcinoma																				X			
Squamous Cell Carcinoma																							X
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Oviduct		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cervix, Squamous Cell Carcinoma																							X
Endometrium, Adenoma																							X
Polyp Stromal																							
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+
Granular Cell Tumor Malignant																							
Hematopoietic System																							
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node																							
Lymph Node, Mandibular																							
Lymph Node, Mesenteric																							
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sarcoma																							
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Integumentary System																							
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma																							X
																							X

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:54

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 50 PPB	DAY ON TEST																														
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	ANIMAL ID	2	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7			
		8	1	8	9	9	1	2	4	5	5	5	6	6	7	8	8	8	0	0	1	2	2	2	3	5	5	5	5		
		9	6	4	2	7	4	6	6	0	3	4	8	6	6	0	0	7	9	1	6	1	2	6	7	0	6	6	7	7	
Adenocarcinoma, Multiple		X		X																		X									
Fibroadenoma			X																			X	X			X	X	X			
Fibroadenoma, Multiple				X		X	X		X			X			X	X	X	X			X	X		X	X	X	X	X			
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Musculoskeletal System																															
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																															
Nervous System																															
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma, Metastatic, Pituitary Gland																			X												
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Respiratory System																															
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Schwannoma Malignant																			X												
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Special Senses System																															
Eye		+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

* ..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: 99920-94

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: 13:26:55

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F1 50 PPB	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
2	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
8	1	8	9	9	9	1	2	4	5	5	5	5	6	6	7	8	8	8	0	1	2	2	3	5	5
9	6	4	2	7	4	6	6	0	3	4	8	6	6	0	0	7	9	1	6	1	2	6	7	0	6
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	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	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	4	4	4
1	7	2	2	2	4	5	7	9	0	0	1	1	2	2	3	5	6	7	9	1	3	4	4	5	1
8	2	3	9	3	5	0	5	3	7	2	6	3	4	6	3	3	5	7	1	8	4	3	4	1	9

Urinary System

Kidney

Bilateral, Renal Tubule, Carcinoma

Renal Tubule, Adenoma

Urinary Bladder

+ + + + + + + + + + + A + + + + + + + + + + + + + + + + + + + M + + + + +

SYSTEMIC LESIONS

Multiple Organ

Leukemia Mononuclear

Lymphoma Malignant

X

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 13:26:55
First Dose M/F: NA / NA
Lab: NCTR

| CD Rat Female
F1 50 PPB | DAY ON TEST | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 |
| | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 6 | 7 | 2 | 2 | 2 | 6 | 6 | 6 | 6 | 7 | 2 | 2 | 7 |
| | 0 | 1 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 0 | 2 | 0 | 0 |

*TOTALS

Alimentary System

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granular Cell Tumor Malignant, Metastatic, Vagina | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | X | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | | | | | 1 |
| Oral Mucosa | | + | | | | | | | | | | | | | + | | | | | 4 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Acinar Cell, Adenocarcinoma | | | | | | | X | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiovascular System | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 99920-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:55

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Female
F1 50 PPB**

* 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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:55

First Dose M/F: NA / NA

Lab: NCTR

| CD Rat Female
F1 50 PPB | 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 | 8 | 8 | 8 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Adenoma | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Carcinoma | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Squamous Cell Carcinoma | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cervix, Squamous Cell Carcinoma | | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 6 | 7 | 2 | 2 | 2 | 6 | 6 | 6 | 6 | 7 | 2 | 1 |
| Endometrium, Adenoma | | 0 | 1 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 0 | 2 | 2 |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | 5 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Granular Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | 1 |
| Hematopoietic System | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | 10 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Sarcoma | | | | | | | | | | | | | | | | | | | | 1 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Integumentary System | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma | X | X | | | | | | | X | | X | | | | | | | | | 6 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

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I ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:55

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1 50 PPB

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | *TOTALS |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7 | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 |
| 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| 2 | 2 | 2 | 2 | 2 | 6 | 6 | 6 | 7 | 2 | 2 | 2 | 6 | 6 | 6 | 6 | 7 | 2 | 7 | 7 |
| 0 | 1 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 0 | 2 | 0 | 0 |
| Adenocarcinoma, Multiple | | | | | | | | | | | | | | | | | | | 3 |
| Fibroadenoma | X | | | X | X | | X | X | X | | X | X | | X | | | | | 22 |
| Fibroadenoma, Multiple | | | | | | | | | | | | | | | | | | X | 5 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | 1 |
| Nervous System | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | | | | | | | | 1 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Respiratory System | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Special Senses System | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethiny Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:55

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1 50 PPB

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

*TOTALS

Urinary System

Kidney + + + + + + + + + + + + + + + + + + + 50

Bilateral, Renal Tubule, Carcinoma X 1

Renal Tubule, Adenoma X 1

Urinary Bladder + + + + + + + + + + + + + + + + + + + 48

SYSTEMIC LESIONS

Multiple Organ + + + + + + + + + + + + + + + + + + + 50

Leukemia Mononuclear X 1

Lymphoma Malignant X 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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 13:26:55
First Dose M/F: NA / NA
Lab: NCTR

**CD Rat Female
 F1/2PPB TO CTL**

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

Alimentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

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Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:56

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/2PPB TO CTL

| | 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 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| | 8 | 0 | 5 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 6 | 9 | 9 | 1 | 1 | 2 | 3 | 3 | 6 | 6 | 7 | 7 | 7 |
| | 7 | 6 | 2 | 3 | 9 | 5 | 4 | 0 | 8 | 2 | 9 | 2 | 7 | 8 | 0 | 2 | 4 | 1 | 6 | 0 | 3 | 5 | 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 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 0 | 3 | 4 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 0 | 3 | 4 | 6 | 6 | 6 | 7 | 8 | 2 | 3 | 3 | 4 | 5 |
| | 3 | 6 | 5 | 5 | 6 | 3 | 4 | 8 | 0 | 4 | 6 | 3 | 2 | 3 | 4 | 5 | 8 | 1 | 0 | 5 | 7 | 9 | 8 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Endocrine System | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | X |
| C Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cel, Adenoma | | | | | | | | | | | | | | | | | | | | | | | X |
| Follicular Cel, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X |
| General Body System | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | |
| Genital System | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | |

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:56

First Dose M/F: NA / NA

Lab: NCTR

| CD Rat Female
F1/2PPB TO CTL | DAY ON TEST | Neoplasms by Individual Animal (Systemic Lesions Abridged) | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma, Metastatic, Kidney | | | | | | | | | | | | | | | | | | | | | X | | | |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Endometrium, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | | X | | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Polyp | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic System | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | X |
| Deep Cervical, Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | M | M | + | M | + | + | + | |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | X | |

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:56

First Dose M/F: NA / NA

Lab: NCTR

| CD Rat Female
F1/2PPB TO CTL | DAY ON TEST | Neoplasms by Individual Animal (Systemic Lesions Abridged) | | | | | | | | | | | | | | | | | | | | |
|--|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 0 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| | | 8 | 0 | 5 | 0 | 0 | 1 | 1 | 3 | 3 | 4 | 6 | 9 | 9 | 1 | 1 | 2 | 3 | 3 | 6 | 7 | 7 |
| | | 7 | 6 | 2 | 3 | 9 | 5 | 4 | 0 | 8 | 2 | 9 | 2 | 7 | 8 | 8 | 0 | 2 | 4 | 1 | 6 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 |
| | | 0 | 3 | 4 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 0 | 3 | 4 | 6 | 6 | 6 | 7 | 8 | 2 | 3 | 3 |
| | | 3 | 6 | 5 | 5 | 6 | 3 | 4 | 8 | 0 | 4 | 6 | 3 | 2 | 3 | 4 | 5 | 8 | 1 | 0 | 5 | 7 |
| Fibroadenoma | | X | | X | | | | | | | | | X | | X | X | X | X | X | X | X | X |
| Fibroadenoma, Multiple | | | | | X | X | | | | | | | X | | | | X | | | | X | X |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | | | | | | | | | | | X |
| Brain, Cerebellum | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Astrocytoma Nos | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Carcinoma, Deep Invasion | | | | | | | | | | | | | | | | | | | | | | X |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | |

* ..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: 99920-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Time Report Requested: 13:26:56

CAS Number: 57-63-6

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/2PPB TO CTL

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

Kidney

+

Bilateral Renal Tubule Carcinoma

x

Urinary Bladder

SYSTEMIC LESIONS

Multiple Organ

+

Lymphoma Malignant

X X

* 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

| Insufficient tissue

Experiment Number: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014
 Time Report Requested: 13:26:57
 First Dose M/F: NA / NA
 Lab: NCTR

**CD Rat Female
 F1/2PPB 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 8 | 6 | 6 | 6 | 2 | 7 | 7 | 7 | 7 | 8 | 7 | 1 | 2 | 2 | 3 | 3 | 2 | 2 |
| | 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 |
| | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 9 | 1 | 1 | 1 | 5 | 6 | 6 | 6 | 1 | 6 | 0 | 1 | 5 | 6 | 1 | 1 | 1 | 6 |
| | 6 | 2 | 3 | 4 | 0 | 5 | 6 | 7 | 2 | 0 | 3 | 3 | 9 | 0 | 4 | 5 | 6 | 7 |
| | | | | | | | | | | | | | | | | | | |

*TOTALS

Alimentary System

| | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma | | | | | | | | | | | | | | | X | | | 1 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | X | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | 2 |
| Oral Mucosa | | + | | | | | | | | | | | | | + | | | 5 |
| Squamous Cell Carcinoma | | X | | | | | | | | | | | | | | | | 3 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | X | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Tooth | | | | | | | | | | | | | | | | | | 1 |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

CD Rat Female F1/2PPB TO CTL

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: 13:26:57

First Dose M/F: NA / NA

Lab: NCTR

General Body System

NONE

Genital System

Clitoral Gland

Carcinoma

Sarcoma

Carcinom

Sarcoma

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:57

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Female
F1/2PPB TO 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 | 7 | 7 | 7 |
| | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 8 | 6 | 6 | 6 | 2 | 7 | 7 | 7 | 7 | 8 | 7 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Kidney | | | | | | | | | | | | | | | | | | | | 1 |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | 1 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Endometrium, Adenoma | | | | | | | | | | | | | | | | | | | | 1 |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | 5 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Polyp | X | | | | | | | | | | | | | | | | | | | 1 |
| Hematopoietic System | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node | + | + | | + | + | | | | | | | | | | | | | | | 15 |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | 1 |
| Deep Cervical, Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Thymus | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Integumentary System | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | 3 |

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:57

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/2PPB TO 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 | 7 | |
| | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 8 | 6 | 6 | 6 | 2 | 7 | 7 | 7 | 7 | 8 | 7 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | |
| Fibroadenoma | X | X | X | | | | | X | X | | | | | | | | | | 16 |
| Fibroadenoma, Multiple | | | | X | X | X | | | | X | | | | | | | | | 10 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Nervous System | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | | | | | | | | 1 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Astrocytoma Nos | | | | | | | | | | | | | | | | | | | X |
| Respiratory System | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Special Senses System | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Squamous Cell Carcinoma, Deep Invasion | | | | | | | | | | | | | | | | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Urinary System | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

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I ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethiny Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:57

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/2PPB TO 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 | 7 | 7 | 7 |
| 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 8 | 6 | 6 | 6 | 2 | 7 | 7 | 7 | 7 | 8 | 7 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| 9 | 1 | 1 | 1 | 5 | 6 | 6 | 6 | 1 | 6 | 0 | 1 | 5 | 6 | 1 | 1 | 1 | 1 | 1 | 6 |
| 6 | 2 | 3 | 4 | 0 | 5 | 6 | 7 | 2 | 0 | 3 | 3 | 9 | 0 | 4 | 5 | 6 | 7 | 7 | 7 |

| | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Bilateral, Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | 2 |

* ..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: 99920-94

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:57

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/10PPB TO CTL

DAY ON TEST

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

Alimentary System

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:58

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/10PPB TO CTL

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

Endocrine System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Adrenal Medulla | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C Cell, Adenoma | | | | | | | | | | | | | | | X | | | | | | | | | | | | X |

General Body System

NONE

Genital System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Endometrium, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Fibrous Histiocytoma | | | | | | | | | | | | | | | 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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:58

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/10PPB TO CTL

| 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 |
| | 2 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 5 | 7 | 9 | 1 | 1 | 3 | 4 | 6 | 6 | 1 | 3 | 3 | 4 | 4 | 6 | 7 | 8 | 0 | 1 | 1 |
| | 4 | 7 | 1 | 0 | 9 | 7 | 6 | 1 | 6 | 2 | 2 | 9 | 1 | 6 | 8 | 4 | 7 | 1 | 2 | 5 |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | |
| Sarcoma Stromal | | | | | | | | | | | | | | | | | | | | |
| Vagina | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic System | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + |
| Integumentary System | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma | | X | | | | | | | X | | | | | | X | X | X | | | |
| Fibroadenoma | | | X | | X | | X | | | X | | | X | | X | X | X | X | X | X |
| Fibroadenoma, Multiple | | | | | | | | X | | | | | | X | | X | | | X | X |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Carcinoma | | | | | | | | | | | | | | | X | | | | | |
| Fibrous Histiocytoma | | | | | | | | | | | | | | | | | | X | | |
| Keratoacanthoma | | | | | | | | | | | | | | | | X | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* ..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: 99920-94

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Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:58

First Dose M/F: NA / NA

Lab: NCTR

| CD Rat Female
F1/10PPB TO CTL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 2 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 5 | 7 | 9 | 1 | 1 | 3 | 4 | 6 | 6 | 1 | 3 | 3 | 4 | 4 | 6 | 7 | 8 | 0 | 0 | 1 | 1 | 1 | | |
| | | 4 | 7 | 1 | 0 | 9 | 7 | 6 | 1 | 6 | 2 | 2 | 9 | 1 | 6 | 8 | 4 | 7 | 1 | 2 | 5 | 4 | 7 | | |
| Skeletal Muscle | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | | 1 | 5 | 5 | 6 | 7 | 8 | 8 | 0 | 0 | 5 | 7 | 8 | 8 | 9 | 3 | 4 | 6 | 9 | 9 | 1 | 2 | 2 | 3 | |
| | | 5 | 3 | 8 | 7 | 5 | 2 | 6 | 2 | 5 | 4 | 7 | 5 | 6 | 6 | 2 | 5 | 6 | 2 | 3 | 8 | 0 | 7 | 3 | |
| Nervous System | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| | | + | | | | | | | | | | | | X | | | | | | | | | | | |
| | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| Respiratory System | | A | | | | | | | | | | | | A | | | | | | | | | | | |
| | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| | | + | | | | | | | | | | | | X | | | | | | | | | | | |
| | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| Special Senses System | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| | | + | | | | | | | | | | | | + | | | | | | | | | | | |
| Urinary 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: 99920-94

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: 13:26:58

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Female
F1/10PPB TO CTL**

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

Urinary Bladder

SYSTEMIC LESIONS

Multiple Organ

Lymphoma Malignant

Mesothelioma Malignant

+

+

X

* ..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

| ..Insufficient tissue

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CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:58

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/10PPB TO CTL

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

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 |
| Leiomyoma | X | | | | | | | | | | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | 1 |
| Oral Mucosa | | | + | | | | | | | | | | | | | | | | 7 |
| Squamous Cell Carcinoma | | | X | | | | | | | | | | | | | | | | 2 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* ..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: 99920-94

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Route: DOSED FEED

Species/Strain: Rat/CD

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Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/10PPB 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 | 8 | 8 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| | 7 | 7 | 7 | 1 | 1 | 1 | 1 | 6 | 6 | 1 | 1 | 2 | 6 | 6 | 6 | 2 | 2 | 6 |
| | 1 | 2 | 3 | 6 | 7 | 8 | 9 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | 4 | 5 | 0 | 1 |

*TOTALS

Endocrine System

| | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | | | | | | | | | | | | X | | | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 48 |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | X | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | 44 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Adenoma | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 36 |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C Cell, Adenoma | | | | | | | | | | | | | | | | | | 3 |

General Body System

NONE

Genital System

| | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Endometrium, Adenoma | | | | | | | | | | | | | | | X | | | 2 |
| Fibrous Histiocytoma | | | | | | | | | | | | | | | | | | 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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/10PPB TO 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 | 7 | 7 | 7 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| 7 | 7 | 7 | 7 | 1 | 1 | 1 | 6 | 6 | 1 | 1 | 2 | 6 | 6 | 6 | 2 | 2 | 6 | 2 | 6 |
| 1 | 2 | 3 | 6 | 7 | 8 | 9 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | 4 | 5 | 0 | 1 | 9 | |
| Polyp Stromal | | X | | | | | | | | | | | | | | X | | | 6 |
| Sarcoma Stromal | | X | | | | | | | | | | | | | | | | | 1 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hematopoietic System | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node | | + | | | + | + | | | | | | | | | | + | + | + | 12 |
| Lymph Node, Mandibular | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | 46 | |
| Integumentary System | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Adenocarcinoma | X | | X | X | | | | | | | | | | | | | | 8 | |
| Fibroadenoma | | | X | | | | | | | | X | X | | X | | | | 15 | |
| Fibroadenoma, Multiple | X | | | | X | X | X | X | | | X | | X | | X | | | 13 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basal Cell Carcinoma | | | | | | | | | | | | | | | | | | 1 | |
| Fibrous Histiocytoma | | | | | | | | | | | | | | | | | | 1 | |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | 1 | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* ..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: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:59

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/10PPB TO CTL

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

Skeletal Muscle

4

Nervous System

| | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | | | | | | | | 1 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | 2 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | 0 |

Respiratory System

| | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | 1 |
| Nephroblastoma, Metastatic, Kidney | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

Special Senses System

| | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

Urinary System

| | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Nephroblastoma | | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* ..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: 99920-94

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: 13:26:59

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Female
F1/10PPB TO 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 |
| ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| 7 | 7 | 7 | 7 | 1 | 1 | 1 | 1 | 6 | 6 | 1 | 1 | 1 | 2 | 6 | 6 | 6 | 6 | 2 | 2 |
| 1 | 2 | 3 | 6 | 7 | 8 | 9 | 5 | 6 | 7 | 8 | 9 | 1 | 0 | 3 | 4 | 4 | 0 | 1 | 9 |

***TOTALS**

Urinary Bladder

SYSTEMIC LESIONS

Multiple Organ

Lymphoma Malignant

Mesothelioma Malignant

X

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

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CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:59

First Dose M/F: NA / NA

Lab: NCTR

Alimentary System

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

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I ..Insufficient tissue

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CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:26:59

First Dose M/F: NA / NA

Lab: NCTR

| CD Rat Female
F1/50PPB TO CTL | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 | 4 | 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 | 7 | |
| | | 0 | 9 | 1 | 6 | 7 | 9 | 9 | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 6 | 8 | 9 | 9 | 0 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | |
| | | 4 | 5 | 1 | 1 | 4 | 3 | 8 | 7 | 0 | 2 | 5 | 2 | 3 | 5 | 7 | 9 | 5 | 6 | 8 | 1 | 2 | 5 | 4 | 8 | 6 | 6 | 6 | 7 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | |
| | | 3 | 6 | 7 | 0 | 1 | 3 | 4 | 6 | 6 | 7 | 8 | 8 | 2 | 2 | 2 | 7 | 8 | 8 | 8 | 9 | 0 | 1 | 5 | 6 | 7 | 8 | 9 | 2 | 7 |
| | | 5 | 0 | 1 | 1 | 1 | 0 | 4 | 1 | 6 | 6 | 1 | 9 | 8 | 1 | 2 | 8 | 2 | 0 | 3 | 8 | 5 | 0 | 1 | 5 | 0 | 3 | 6 | 2 | 3 |

Endocrine System

General Body System

NONE

Genital System

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94
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CAS Number: 57-63-6

Date Report Requested: 10/23/2014
 Time Report Requested: 13:27:00
 First Dose M/F: NA / NA
 Lab: NCTR

| CD Rat Female
F1/50PPB TO CTL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | | 0 | 9 | 1 | 6 | 7 | 9 | 9 | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 6 | 8 | 9 | 9 | 0 | 0 | 1 |
| | | 4 | 5 | 1 | 1 | 4 | 3 | 8 | 7 | 0 | 2 | 5 | 2 | 3 | 5 | 7 | 9 | 5 | 6 | 8 | 1 | 2 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| | | 3 | 6 | 7 | 0 | 1 | 3 | 4 | 6 | 6 | 7 | 8 | 0 | 2 | 2 | 2 | 7 | 8 | 8 | 8 | 9 | 0 |
| | | 5 | 0 | 1 | 1 | 1 | 0 | 4 | 1 | 6 | 1 | 9 | 8 | 1 | 2 | 8 | 2 | 0 | 3 | 8 | 5 | 0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Endometrium, Adenoma | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | | X | | | | | | | | | | X | X | | | |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic System | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | |
| Thymoma Benign | | | | | | | | | | | | | | | | | | | | | | |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenocarcinoma | X | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| Fibroadenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrous Histiocytoma | X | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | X | | | | | | | |
| Subcut Tiss, Granular Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | |
| Subcut Tiss, Lipoma | | | | | | | | | | | | | | | | | | | | | | 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

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First Dose M/F: NA / NA

Lab: NCTR

| CD Rat Female
F1/50PPB TO CTL | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 | 4 | 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 | 7 | 7 | |
| | | 0 | 9 | 1 | 6 | 7 | 9 | 9 | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 6 | 8 | 9 | 9 | 0 | 0 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 5 |
| | | 4 | 5 | 1 | 1 | 4 | 3 | 8 | 7 | 0 | 2 | 5 | 2 | 3 | 5 | 7 | 9 | 5 | 6 | 8 | 1 | 2 | 5 | 4 | 8 | 6 | 8 | 2 | 6 | 6 | 7 |
| | | 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 |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebellum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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

Experiment Number: 99920-94

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: 13:27:00

First Dose M/F: NA / NA

Lab: NCTR

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

SYSTEMIC LESIONS

Multiple Organ

* ..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

| ..Insufficient tissue

Experiment Number: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

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

Date Report Requested: 10/23/2014
 Time Report Requested: 13:27:00
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Female
F1/50PPB 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 | 8 | 8 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| | 7 | 7 | 2 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 7 | 2 | 2 | 7 |
| | 8 | 9 | 5 | 6 | 7 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 3 | 4 |

*TOTALS

Alimentary System

| | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leiomyoma | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cholangioma | X | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | 2 |
| Hepatocellular Adenoma, Multiple | | | | | | | | | | | | | | | | | | 1 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | 4 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* ..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: 99920-94
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

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

Date Report Requested: 10/23/2014
 Time Report Requested: 13:27:00
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Female
F1/50PPB 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 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| | 7 | 7 | 2 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 7 | 2 | 2 | 7 |
| | 8 | 9 | 5 | 6 | 7 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 3 | 4 |

*TOTALS

Endocrine System

| | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | | | | | | | | | | X | | | | | 3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pheochromocytoma Benign | | | | | | | | | | | | | X | | | | | 2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | X | | | | | | | | | | | | | | | | 1 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Adenoma | | | | | | | | | | | | | X | | | | | 1 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pars Distalis, Adenoma | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 34 |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C Cell, Carcinoma | | | | | | | | | | | | | X | | | | | 1 |

General Body System

NONE

Genital System

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | X | | | | | 2 |
| Oviduct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

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I ..Insufficient tissue

Experiment Number: 99920-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Diacetate)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:27:00

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/50PPB TO 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 | 7 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| 7 | 7 | 2 | 2 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 7 | 7 | 2 | 2 | 2 | 7 |
| 8 | 9 | 5 | 6 | 7 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 3 | 4 | 4 | 1 | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Endometrium, Adenoma | | | | | | | X | | | | | | | | | | | | | 1 |
| Polyp Stromal | | | | | | | X | | | | | | | | X | | X | | | 7 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hematopoietic System | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node | | | | | | | + | | | | | | | | + | + | + | + | + | 13 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Thymoma Benign | | | | | | | | | | | | | | | | | | | | 1 |
| Integumentary System | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma | | | | | | | X | | | | | | | | X | X | | | | 11 |
| Fibroadenoma | | X | | | | X | | | | | | | | | X | X | | | | 21 |
| Fibroadenoma, Multiple | X | X | X | X | X | | | | | | | | | | X | X | | | | 13 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrous Histiocytoma | | | | | | | | | | | | | | | | | | | | 1 |
| Sarcoma | | | | | | | | | | | | | | | | | | | | 1 |
| Subcut Tiss, Granular Cell Tumor Benign | | | | | | | X | | | | | | | | | | | | | 1 |
| Subcut Tiss, Lipoma | | | | | | | | | | | | | | | | | | | | 1 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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Experiment Number: 99920-94

Test Type: SPECIAL STUDY

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P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: ENDOCRINE DISRUPTOR(Ethynodiol Estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:27:01

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F1/50PPB 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 | 8 | 8 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| | 7 | 7 | 2 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 7 | 2 | 2 | 7 |
| | 8 | 9 | 5 | 6 | 7 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 3 | 4 |

*TOTALS

Musculoskeletal System

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

Nervous System

| | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | | | | | | | 1 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

Respiratory System

| | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

Special Senses System

| | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | 1 |
| Carcinoma | | | | | | | | | | | | | | | | | | 1 |

Urinary System

| | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

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I ..Insufficient tissue

Experiment Number: 99920-94

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CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 13:27:01

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Female
F1/50PPB 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 |
| ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| 7 | 7 | 2 | 2 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 7 | 7 | 2 | 7 |
| 8 | 9 | 5 | 6 | 6 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 3 | 4 | 1 |

***TOTALS**

SYSTEMIC LESIONS

Multiple Organ

** END OF REPORT **

* ..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

| ..Insufficient tissue