

**Experiment Number:** 99930-94  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** Endocrine disruptor (Genistein)

**CAS Number:** 446-72-0

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 17:28:30

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

**Lab:** NCTR

<b>C Number:</b>	MG96005
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

Experiment Number: 99930-94  
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 First Dose M/F: NA / NA  
 Lab: NCTR

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

**Alimentary System**

Esophagus	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	A	A	M	A	A	A	+	+	A	+	A	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	A	A	+	A	A	A	+	+	A	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum									+							A	A	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	A	A	+	A	A	A	+	+	A	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	A	A	+	A	A	A	+	+	A	+	A	A	+	+	A	A	+	+	+	+	A	+	+	+	+	+
Intestine Small, Jejunum	+	+	A	A	+	A	A	A	+	+	A	+	A	A	+	+	A	A	+	+	+	+	+	+	+	+	+	+
Adenocarcinoma																												
Liver	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Adenoma																												
Mesentery			+																									
Pancreas	+	+	A	A	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	+	+	A	A	+	A	+	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Neurofibrosarcoma			X																									
Stomach, Forestomach	+	+	A	A	+	A	A	A	+	+	A	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	A	A	+	A	A	A	+	+	A	+	A	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+

**Endocrine System**

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

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

Experiment Number: 99930-94

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Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:28:31

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Male F1 0PPM	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	
	ANIMAL ID	2	2	3	4	4	4	4	5	0	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		7	5	4	3	6	5	8	5	7	7	9	6	8	9	2	7	2	7	0	7	7	3	3	3	8	8	8	8	9	9
Adrenal Cortex		+	+	A	A	+	+	+	+	+	A	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																															X
Adrenal Medulla		+	+	A	A	+	A	+	+	M	+	A	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Pheochromocytoma Benign																															
Pheochromocytoma Benign																															
Pheochromocytoma Complex																															
Islets, Pancreatic		+	+	+	A	+	A	+	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																															
Parathyroid Gland		+	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	M
Adenoma																															
Pituitary Gland		+	+	+	M	+	A	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma											X	X	X				X				X			X		X	X			X	
Pars Distalis, Adenoma, Multiple																														X	
Thyroid Gland		+	+	+	A	+	A	+	+	+	+	A	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																															
<b>General Body System</b>																															
NONE																															
<b>Genital System</b>																															
Coagulating Gland		+	+	+	A	+	A	A	+	+	+	A	+	A	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma, Metastatic, Prostate																															
Ductus Deferens																														A	
Epididymis		+	+	+	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
Time Report Requested: 17:28:31  
First Dose M/F: NA / NA  
Lab: NCTR

CD Rat Male F1 0PPM	DAY ON TEST	ANIMAL ID																												
		0 2 7	0 2 5	0 3 6	0 4 3	0 4 6	0 4 5	0 4 8	0 5 9	0 0 7	0 5 2	0 5 8	0 5 9	0 6 2	0 6 8	0 6 9	0 7 2	0 7 7	0 7 7	0 7 7	0 7 7	0 7 8	0 7 8	0 7 8	0 7 8	0 7 9	0 7 9	0 7 9	0 7 9	
Preputial Gland		+	+	+	A	+	+	A	+	+	+	A	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Carcinoma																														
Prostate		+	+	+	A		A			+		A					+	A		+	+								+	
Prostate, Dorsal Lobe		+	+	+	A	+	A	+	+	+	A	+	A	+	+	M	A	+	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma																													X	
Prostate, Ventral Lobe		+	+	+	A	+	A	A	+	+	+	A	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma																														
Rete Testes		+	+	+	+	+	M	A	M	+	+	M	+	+	+	+	+	+	M	+	+	I	I	+	+	+	+	+	+	
Seminal Vesicle		+	+	A	A	+	A	A	+	+	+	A	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Adenocarcinoma, Metastatic, Prostate																													X	
Testes		+	+	+	+		A	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	
<b>Hematopoietic System</b>																														
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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus		+	+	M	A	+	+	+	+	+	+	A	+	A	M	+	M	+	I	+	+	+	+	+	+	+	+	+		
<b>Integumentary System</b>																														
Mammary Gland		+	+	I	A	I	A	I	+	+	I	I	+	A	I	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin		M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibroma																													X	

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 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:31  
 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	0	0	0	0	0	0	0	0	0
<b>CD Rat Male</b>		2	2	3	4	4	4	4	5	0	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	<b>F1 OPPM</b>	2	7	6	3	3	7	8	6	5	7	7	9	6	8	9	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		7	5	4	3	6	5	5	9	7	2	8	8	9	2	7	2	0	7	7	7	8	8	8	9	9	9	9	9	9	9	9	9	9	9	
	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	1	1	1	1	1	0	1	1	2	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	
		4	5	6	0	0	1	2	7	7	8	9	1	2	5	8	0	3	5	6	7	7	1	1	7	7	6	6	7	7	9	9	0	0		
		1	2	5	0	3	9	3	9	5	6	1	2	2	9	5	7	8	8	0	0	1	7	8	5	6	3	9	2	3	3	3	3	3		

Lipoma

Sarcoma

**Musculoskeletal System**

Bone, Femur

+ + + + + A +

**Nervous System**

Brain, Brain Stem

+ + + A + A A + + + A +

Brain, Cerebellum

+ + + A + A A + + + A +

Granular Cell Tumor Malignant

X

Brain, Cerebrum

+ + + A + A A + + + A +

**Respiratory System**

Lung

+ + A A + + + + + A + + + + + A A +

Alveolar/Bronchiolar Carcinoma

Nose

+ + A A + A + + + + A + A +

Trachea

+ + A A A A + A + + A + A +

**Special Senses System**

Eye

+ +

Harderian Gland

+ +

Adenoma

Lacrimal Gland

+ + + + + + + + + + + + + + + + +

**Urinary System**

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:31  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 OPPM  | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                         |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |             | 2         | 2 | 3 | 4 | 4 | 4 | 4 | 5 | 0 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                         |             | 2         | 7 | 6 | 3 | 3 | 7 | 8 | 6 | 5 | 7 | 7 | 9 | 6 | 8 | 9 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                         |             | 7         | 5 | 4 | 3 | 6 | 5 | 5 | 9 | 7 | 2 | 8 | 8 | 9 | 2 | 7 | 2 | 7 | 0 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 |
|                         |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |             | 0         | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
|                         |             | 4         | 5 | 6 | 0 | 0 | 1 | 2 | 7 | 7 | 8 | 9 | 1 | 2 | 5 | 8 | 0 | 3 | 5 | 6 | 7 | 7 | 1 | 1 | 7 | 7 | 6 | 7 | 9 | 0 |
|                         |             | 1         | 2 | 5 | 0 | 3 | 9 | 3 | 9 | 5 | 6 | 1 | 2 | 2 | 5 | 8 | 7 | 8 | 8 | 0 | 0 | 1 | 7 | 8 | 5 | 6 | 3 | 2 | 3 | 3 |
| Kidney                  |             | +         | + | A | A | + | + | + | + | + | A | + | A | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenoma, Tubular        |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder         |             | +         | + | A | A | + | A | A | + | + | + | A | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |   |
| <b>SYSTEMIC LESIONS</b> |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Multiple Organ          |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Granulocytic   |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant      |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesothelioma Benign     |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

**CD Rat Male  
 F1 0PPM**

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

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 53 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Adenocarcinoma            |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | 1  |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 51 |
| Hepatocellular Adenoma    |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Neurofibrosarcoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Stomach, Forestomach      | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |

**Cardiovascular System**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 53 |
| Heart        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 52 |

**Endocrine System**

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:32  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 0PPM**

| 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  |
|                                      | 7         | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7       | 49 |
|                                      | 3         | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5       | 1  |
|                                      | 9         | 9 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 8 | 9 | 9 | 9 | 9 | 3       | 47 |
|                                      | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | 1  |
|                                      | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | 1  |
|                                      | 6         | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 8 | 8 | 9       | 1  |
|                                      | 0         | 0 | 5 | 5 | 3 | 3 | 9 | 9 | 8 | 8 | 1 | 1 | 4 | 7 | 7 | 0 | 9 | 5 | 5 | 0 | 3       | 49 |
|                                      | 4         | 5 | 6 | 7 | 8 | 9 | 3 | 9 | 3 | 4 | 3 | 4 | 2 | 5 | 8 | 9 | 3 | 6 | 4 | 5 | 0       | 1  |
| Adrenal Cortex                       | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 49 |
| Adenoma                              |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Adrenal Medulla                      | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 47 |
| Bilateral, Pheochromocytoma Benign   |           |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Pheochromocytoma Benign              |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |         | 1  |
| Pheochromocytoma Complex             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |         | 1  |
| Islets, Pancreatic                   | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 49 |
| Adenoma                              |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |         | 1  |
| Parathyroid Gland                    | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | +       | 47 |
| Adenoma                              |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |         | 1  |
| Pituitary Gland                      | +         | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | +       | 49 |
| Pars Distalis, Adenoma               |           |   |   |   | X | X | X |   |   |   | X | X | X |   | X | X | X | X | X |   | X       | 22 |
| Pars Distalis, Adenoma, Multiple     |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Thyroid Gland                        | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 49 |
| C Cell, Adenoma                      |           |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| <b>General Body System</b>           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| NONE                                 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| <b>Genital System</b>                |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| Coagulating Gland                    | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 47 |
| Adenocarcinoma, Metastatic, Prostate | X         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Ductus Deferens                      |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 0  |
| Epididymis                           | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 51 |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:32  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 0PPM**

| 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                            | 7              | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7  |
|                                      | 3              | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5  |
|                                      | 9              | 9 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 3  |
|                                      | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
|                                      | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
|                                      | 6              | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 8 | 8 | 9 | 9 | 9  |
|                                      | 0              | 0 | 5 | 5 | 3 | 3 | 9 | 9 | 8 | 8 | 1 | 1 | 4 | 7 | 7 | 7 | 0 | 9 | 5 | 5 | 0 | 0 | 3  |
|                                      | 4              | 5 | 6 | 7 | 8 | 9 | 3 | 9 | 3 | 4 | 2 | 5 | 8 | 9 | 3 | 6 | 4 | 5 | 2 | 5 | 0 | 3 | 0  |
|                                      | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Preputial Gland                      | +              | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Squamous Cell Carcinoma              |                |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Prostate                             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 8  |
| Prostate, Dorsal Lobe                | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Adenocarcinoma                       | X              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Prostate, Ventral Lobe               | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Adenocarcinoma                       | X              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Rete Testes                          | +              | + | + | + | + | + | + | + | + | I | I | + | + | + | + | + | + | + | + | + | A | + | 44 |
| Seminal Vesicle                      | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Adenocarcinoma, Metastatic, Prostate | X              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Testes                               | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| <b>Hematopoietic System</b>          |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Bone Marrow                          | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymph Node                           |                |   |   |   | + |   |   |   |   | + |   |   |   |   |   |   | + | + |   | + |   |   | 15 |
| Lymph Node, Mandibular               | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 52 |
| Lymph Node, Mesenteric               | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Spleen                               | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 52 |
| Thymus                               | +              | + | M | + | + | + | + | + | + | + | + | M | + | M | + | + | + | M | M | + | + | + | 42 |
| <b>Integumentary System</b>          |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Mammary Gland                        | +              | + | + | + | I | + | + | + | + | + | + | + | + | + | + | I | + | + | I | + | + | + | 41 |
| Skin                                 | I              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 51 |
| Fibroma                              |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:32  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 0PPM         | 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   | 7              | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7  |   |
|                                |             | 3              | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |    |   |
|                                |             | 9              | 9 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 8 | 9 | 9 | 9 | 9 | 9 | 3  |   |
|                                |             | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |   |
|                                |             | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |   |
|                                |             | 6              | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 8 | 8 | 9 | 9 | 9  |   |
|                                |             | 0              | 0 | 5 | 5 | 3 | 3 | 9 | 9 | 8 | 8 | 1 | 1 | 4 | 7 | 7 | 0 | 9 | 5 | 5 | 0 | 0 | 3  |   |
|                                |             | 4              | 5 | 6 | 7 | 8 | 9 | 3 | 9 | 3 | 4 | 3 | 4 | 2 | 5 | 8 | 9 | 3 | 6 | 4 | 5 | 2 | 5  | 0 |
|                                |             | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
| Lipoma                         |             | X              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |   |
| Sarcoma                        |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |   |
| <b>Musculoskeletal System</b>  |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
| Bone, Femur                    |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |   |
| <b>Nervous System</b>          |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
| Brain, Brain Stem              |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |   |
| Brain, Cerebellum              |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |   |
| Granular Cell Tumor Malignant  |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |   |
| Brain, Cerebrum                |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |   |
| <b>Respiratory System</b>      |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
| Lung                           |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |   |
| Alveolar/Bronchiolar Carcinoma |             | X              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |   |
| Nose                           |             | +              | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |   |
| Trachea                        |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |   |
| <b>Special Senses System</b>   |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
| Eye                            |             | +              | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |   |
| Harderian Gland                |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |   |
| Adenoma                        |             | X              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |   |
| Lacrimal Gland                 |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 10 |   |
| <b>Urinary System</b>          |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:32  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 0PPM**

|                         | DAY ON TEST | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | *TOTALS |      |
|-------------------------|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|------|
|                         |             | 0739      | 0739 | 0742 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 | 0744 |         | 0744 |
|                         |             | 0         | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0       |      |
|                         |             | 7         | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7       |      |
|                         |             | 3         | 3    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 5       |      |
|                         |             | 9         | 9    | 2    | 2    | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 4    | 5    | 5    | 5    | 8    | 9    | 9    | 9    | 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       |      |
|                         |             | 6         | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7    | 7    | 7    | 7    | 7    | 8    | 7    | 8    | 8    | 9    | 9       |      |
|                         |             | 0         | 0    | 5    | 5    | 3    | 3    | 9    | 9    | 8    | 8    | 1    | 1    | 4    | 7    | 7    | 7    | 0    | 9    | 5    | 5    | 0       |      |
|                         |             | 4         | 5    | 6    | 7    | 8    | 9    | 3    | 9    | 3    | 4    | 3    | 4    | 2    | 5    | 8    | 9    | 3    | 6    | 4    | 5    | 2       |      |
|                         |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         |      |
| Kidney                  |             | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +       | 48   |
| Adenoma, Tubular        |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         | 1    |
| Urinary Bladder         |             | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +       | 47   |
| <b>SYSTEMIC LESIONS</b> |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         |      |
| Multiple Organ          |             | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +       | 54   |
| Leukemia Granulocytic   |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         | 1    |
| Lymphoma Malignant      |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         | 2    |
| Mesothelioma Benign     |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         | 1    |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:32  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 5PPM | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                        |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                        | 2           | 3         | 4 | 4 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|                        | 9           | 0         | 2 | 5 | 2 | 0 | 1 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |   |
|                        | 6           | 3         | 9 | 3 | 5 | 2 | 7 | 4 | 8 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 2 | 2 | 2 | 3 | 3 | 3 |   |
|                        | 0           | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                        | 0           | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                        | 0           | 0         | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
|                        | 5           | 5         | 9 | 1 | 3 | 1 | 3 | 7 | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 2 | 5 | 5 | 7 | 9 |
|                        | 3           | 4         | 9 | 5 | 2 | 6 | 1 | 7 | 3 | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 4 | 5 | 6 | 1 | 5 | 6 | 7 | 8 | 9 | 8 | 8 | 9 | 4 | 4 |

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Intestine Large, Cecum    | + | + | A | + | A | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Intestine Large, Colon    | A | + | + | + | A | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Adenoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Rectum   |   |   |   | + |   |   |   |   |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Duodenum | A | + | A | + | A | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Ileum    | + | + | + | + | A | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenocarcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Small, Jejunum  | + | + | A | + | A | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenocarcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Liver                     | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Carcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                  | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Salivary Glands           | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach      | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular        | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**Cardiovascular System**

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

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:33  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 5PPM**

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

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
| Squamous Cell Carcinoma     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |  |  |  |  |
| Prostate                    |   |   |   | + |   |   |   |   | A |   |   |   |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Prostate, Dorsal Lobe       | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| Prostate, Ventral Lobe      | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| Rete Testes                 | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| Seminal Vesicle             | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| Testes                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| <b>Hematopoietic System</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Bone Marrow                 | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| Lymph Node                  |   |   | + | + |   |   |   | + |   |   |   |   |   |   | + | + | + | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Lymph Node, Mandibular      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| Lymph Node, Mesenteric      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |  |  |
| Spleen                      | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| Thymus                      | + | I | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| <b>Integumentary System</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Mammary Gland               | + | + | I | + | A | + | M | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| Fibroadenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Skin                        | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |  |  |
| Basal Cell Adenoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Fibroma                     |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Keratoacanthoma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Sarcoma                     |   |   |   | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:33  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 5PPM | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                        |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                        | 2           | 3         | 4 | 4 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                        | 9           | 0         | 2 | 5 | 2 | 0 | 1 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
|                        | 6           | 3         | 9 | 3 | 5 | 2 | 7 | 4 | 8 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 2 | 2 | 2 | 3 | 3 | 3 |
|                        | 0           | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                        | 0           | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                        | 0           | 0         | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |   |
|                        | 5           | 5         | 9 | 1 | 3 | 1 | 3 | 7 | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 2 | 5 | 5 |   |
|                        | 3           | 4         | 9 | 5 | 2 | 6 | 1 | 7 | 3 | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 4 | 5 | 6 | 1 | 5 | 6 | 7 | 8 | 9 | 8 | 8 | 9 |   |

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Squamous Cell Papilloma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Musculoskeletal System</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone, Femur                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Nervous System</b>         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Brain, Brain Stem             | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebellum             | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum               | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granular Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| <b>Respiratory System</b>     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung                          | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar Epith, Adenoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Nose                          | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea                       | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Special Senses System</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eye                           |   |   |   | + |   |   |   |   |   |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland               |   |   |   | + |   |   |   |   |   |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland                |   |   |   |   |   |   |   | + |   |   |   |   | + |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   |   |
| Zymbal's Gland                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Urinary System</b>         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:33  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 5PPM  | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                         |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                         |             | 2         | 3 | 4 | 4 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |
|                         |             | 9         | 0 | 2 | 5 | 2 | 0 | 1 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |   |
|                         |             | 6         | 3 | 9 | 3 | 5 | 2 | 7 | 4 | 8 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 2 | 2 | 2 |   |   |
|                         |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                         |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                         |             | 0         | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |   |
|                         |             | 5         | 5 | 9 | 1 | 3 | 1 | 3 | 7 | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 2 | 5 | 5 | 7 | 7 | 9 |
|                         |             | 3         | 4 | 9 | 5 | 2 | 6 | 1 | 7 | 3 | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 4 | 5 | 6 | 1 | 5 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |   |
| Kidney                  |             | A         | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Urinary Bladder         |             | +         | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| <b>SYSTEMIC LESIONS</b> |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Multiple Organ          |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymphoma Malignant      |             |           | X | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:33  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 5PPM**

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

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Adenoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Adenocarcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Adenocarcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Hepatocellular Carcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                 |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |

**Cardiovascular System**

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

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 5PPM**

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

**Endocrine System**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Adenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Adrenal Medulla            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pheochromocytoma Benign    |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | 1  |
| Pheochromocytoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Islets, Pancreatic         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 3  |
| Parathyroid Gland          | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Pituitary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Pars Distalis, Adenoma     |   | X |   |   | X |   |   | X | X |   |   |   |   |   | X | X |   | X |   | 14 |
| Thyroid Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| C Cell, Adenoma            |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   | 2  |
| C Cell, Carcinoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**General Body System**

NONE

**Genital System**

|                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Epididymis        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Penis             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Preputial Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 5PPM**

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

**\*TOTALS**

|                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |
|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|----|----|
| Squamous Cell Carcinoma     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | 3 |   |   |   |   |   |   |   |    |    |
| Prostate                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | 9 |   |   |    |    |
| Prostate, Dorsal Lobe       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | + | + | + | 49 |    |
| Prostate, Ventral Lobe      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | + | + | + | 49 |    |
| Rete Testes                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | I | + | + | + | + | + | + | + | +  | 47 |
| Seminal Vesicle             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | + | + | + | +  | 48 |
| Testes                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | + | + | + | +  | 50 |
| <b>Hematopoietic System</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |
| Bone Marrow                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | + | + | + | +  | 49 |
| Lymph Node                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    | 13 |
| Lymph Node, Mandibular      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | + | + | + | +  | 50 |
| Lymph Node, Mesenteric      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | + | + | + | +  | 50 |
| Spleen                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | + | + | + | +  | 48 |
| Thymus                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | + | + | + | +  | 44 |
| <b>Integumentary System</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |
| Mammary Gland               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | + | + | + | +  | 43 |
| Fibroadenoma                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    | 1  |
| Skin                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   | + | + | + | + | + | + | + | + | +  | 49 |
| Basal Cell Adenoma          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    | 1  |
| Fibroma                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    | 1  |
| Keratoacanthoma             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    | 1  |
| Sarcoma                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    | 1  |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 5PPM**

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

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Squamous Cell Papilloma       | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| <b>Musculoskeletal System</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone, Femur                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Nervous System</b>         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Brain, Brain Stem             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebellum             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granular Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| <b>Respiratory System</b>     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar Epith, Adenoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Nose                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Special Senses System</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eye                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 9 |
| Zymbal's Gland                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Squamous Cell Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| <b>Urinary System</b>         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 5PPM**

|                         | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | *TOTALS |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                         | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |         |
|                         | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 |         |
|                         | 3           | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 2 | 2 | 3 |         |
| ANIMAL ID               | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                         | 6           | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |         |
|                         | 9           | 9 | 1 | 1 | 3 | 3 | 6 | 6 | 7 | 9 | 9 | 4 | 5 | 8 | 8 | 8 | 9 | 9 | 2 | 2 |         |
|                         | 5           | 8 | 2 | 5 | 0 | 1 | 5 | 6 | 7 | 2 | 3 | 6 | 1 | 0 | 1 | 2 | 6 | 7 | 6 | 6 |         |
| Kidney                  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |         |
| Urinary Bladder         | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |         |
| <b>SYSTEMIC LESIONS</b> |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Multiple Organ          | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |         |
| Lymphoma Malignant      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:34  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F1 100PPM

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

Alimentary System

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   |   |   |   |   |   |   |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

Cardiovascular System

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

Endocrine System

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adrenal Medulla         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Pheochromocytoma Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

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

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

Experiment Number: 99930-94

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:28:35

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

| CD Rat Male<br>F1 100PPM   | 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 |
|----------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | ANIMAL ID   | 2 | 4 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                            |             | 1 | 7 | 8 | 9 | 1 | 1 | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                            |             | 3 | 4 | 9 | 3 | 7 | 9 | 0 | 5 | 5 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 5 |
|                            | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                            | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                            | 0           | 1 | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |   |
|                            | 3           | 2 | 0 | 0 | 3 | 3 | 2 | 6 | 6 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 7 | 8 | 2 | 6 | 2 | 3 | 9 | 7 | 7 | 1 | 2 |   |
|                            | 9           | 0 | 1 | 4 | 0 | 2 | 8 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 1 | 4 | 0 | 2 | 2 | 9 | 0 | 6 | 6 | 7 | 2 |   |
| Islets, Pancreatic Adenoma |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland          |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | I | + | + | + | + | + |
| Pituitary Gland            |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma     |             |   | X |   | X |   | X | X | X |   | X |   | X |   | X | X | X | X |   | X |   |   |   | X | X |   |   |   |
| Thyroid Gland              |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C Cell, Adenoma            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>General Body System</b> |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Tissue NOS                 |             |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Chondrosarcoma             |             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Genital System</b>      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Coagulating Gland          |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epididymis                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland            |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Carcinoma    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Prostate                   |             | + |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Prostate, Dorsal Lobe      |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate, Ventral Lobe     |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Rete Testes                |             | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle            |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes                     |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 100PPM | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                          |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|                          | 2           | 4         | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |   |
|                          | 1           | 7         | 8 | 9 | 1 | 1 | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |   |   |
|                          | 3           | 4         | 9 | 3 | 7 | 9 | 0 | 5 | 5 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 5 |   |   |   |
|                          | 0           | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |   |
|                          | 0           | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |   |
|                          | 0           | 1         | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |   |   |   |
|                          | 3           | 2         | 0 | 0 | 3 | 3 | 2 | 6 | 6 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 7 | 8 | 2 | 6 | 2 | 3 | 9 | 7 | 7 | 7 | 1 | 2 | 2 | 3 | 2 |   |
|                          | 9           | 0         | 1 | 4 | 0 | 2 | 8 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 1 | 4 | 0 | 2 | 9 | 0 | 6 | 6 | 6 | 7 | 8 | 1 | 5 | 6 | 2 | 4 |

**Hematopoietic System**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Lymph Node             | + |   | + |   |   | + |   | + | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus                 | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**Integumentary System**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland  | I | + | I | I | + | I | I | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |  |
| Adenocarcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Skin           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Fibrosarcoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Sarcoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**Musculoskeletal System**

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

**Nervous System**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Brain, Cerebellum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 100PPM | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                          |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                          | 2           | 4         | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|                          | 1           | 7         | 8 | 9 | 1 | 1 | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |
|                          | 3           | 4         | 9 | 3 | 7 | 0 | 0 | 5 | 5 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 3 | 3 | 3 | 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 | 0 | 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 | 2 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |   |
|                          | 3           | 2         | 0 | 0 | 3 | 3 | 2 | 6 | 6 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 7 | 8 | 2 | 6 | 2 | 3 | 9 | 7 | 7 | 7 | 1 | 2 | 2 | 3 | 2 |
|                          | 9           | 0         | 1 | 4 | 0 | 2 | 8 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 1 | 4 | 0 | 2 | 9 | 0 | 6 | 6 | 7 | 8 | 1 | 5 | 6 | 2 | 4 |

**Respiratory System**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chondrosarcoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibrosarcoma, Metastatic, Skin                     |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**Special Senses System**

|                 |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye             |  |  |  |  |  |  |  |  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland |  |  |  |  |  |  |  |  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   | + |   | + |   | + | + |   | + | + |

**Urinary System**

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosarcoma, Metastatic, Skin |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urethra                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SYSTEMIC LESIONS**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymphoma Malignant     | X |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesothelioma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 100PPM**

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

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma    |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   | 2  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

**Cardiovascular System**

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

**Endocrine System**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adrenal Medulla         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pheochromocytoma Benign |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 2  |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 100PPM**

|                            | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |         |
|----------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
|                            | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |         |
| ANIMAL ID                  | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7  |         |
|                            | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5  |         |
|                            | 5           | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 2  |         |
|                            | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |         |
|                            | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |         |
|                            | 7           | 7 | 7 | 9 | 7 | 7 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9  |         |
|                            | 7           | 6 | 6 | 0 | 9 | 9 | 5 | 8 | 4 | 4 | 4 | 4 | 8 | 8 | 8 | 2 | 7 | 7 | 7 | 2  |         |
|                            | 6           | 2 | 3 | 0 | 4 | 5 | 2 | 4 | 2 | 3 | 4 | 5 | 4 | 5 | 6 | 3 | 7 | 8 | 8 | 9  |         |
|                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | *TOTALS |
| Islets, Pancreatic Adenoma | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Parathyroid Gland          | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |         |
| Pituitary Gland            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Pars Distalis, Adenoma     |             | X | X | X |   |   |   |   | X | X |   | X | X |   | X |   |   |   |   | 22 |         |
| Thyroid Gland              | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| C Cell, Adenoma            |             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | 1  |         |
| <b>General Body System</b> |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |         |
| Tissue NOS                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |         |
| Chondrosarcoma             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |         |
| <b>Genital System</b>      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |         |
| Coagulating Gland          | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Epididymis                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Preputial Gland            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |         |
| Squamous Cell Carcinoma    |             |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |         |
| Prostate                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |         |
| Prostate, Dorsal Lobe      | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Prostate, Ventral Lobe     | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Rete Testes                | I           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |         |
| Seminal Vesicle            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Testes                     | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
 M ..Missing tissue  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 100PPM**

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

**Hematopoietic System**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node             |   |   | + | + | + | + |   |   | + | + |   |   |   |   |   | + |   |   | + | 16 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 49 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Thymus                 | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | 45 |

**Integumentary System**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland  | + | + | + | + | + | + | + | I | + | + | I | + | + | I | + | I | + | + | + | 40 |
| Adenocarcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Skin           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrosarcoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Sarcoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**Musculoskeletal System**

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

**Nervous System**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain, Brain Stem          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Brain, Cerebellum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Brain, Cerebrum            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granular Cell Tumor Benign |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 100PPM**

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

**Respiratory System**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Chondrosarcoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Fibrosarcoma, Metastatic, Skin                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

**Special Senses System**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Lacrimal Gland  |   | + | + |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   | 10 |

**Urinary System**

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrosarcoma, Metastatic, Skin |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Urethra                        |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Urinary Bladder                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

**SYSTEMIC LESIONS**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Mesothelioma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 500PPM | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                          |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                          |             | 2         | 3 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|                          |             | 0         | 5 | 2 | 6 | 6 | 6 | 6 | 6 | 7 | 8 | 8 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                          |             | 6         | 9 | 8 | 4 | 9 | 2 | 5 | 9 | 5 | 5 | 9 | 5 | 0 | 1 | 1 | 2 | 9 | 0 | 1 | 4 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 |
|                          |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                          |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                          |             | 0         | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
|                          |             | 3         | 6 | 3 | 7 | 8 | 1 | 2 | 2 | 4 | 6 | 6 | 8 | 0 | 0 | 1 | 4 | 4 | 4 | 5 | 6 | 6 | 6 | 0 | 6 | 6 | 9 | 9 | 9 |   |
|                          |             | 8         | 3 | 3 | 2 | 5 | 8 | 0 | 6 | 2 | 1 | 8 | 7 | 8 | 1 | 9 | 7 | 6 | 9 | 7 | 7 | 8 | 9 | 2 | 7 | 8 | 0 | 1 | 2 | 0 |

**Alimentary System**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                  | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Serosa, Carcinoma, Metastatic, Prostate |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Colon                  | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Serosa, Carcinoma, Metastatic, Prostate |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Rectum                 |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   | + | + | A | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum               | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Serosa, Carcinoma, Metastatic, Prostate |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Small, Ileum                  | A | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | A | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                | A | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | A | A | + | + | A | + | + | + | + | + | + |
| Liver                                   | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Prostate         |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                               |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Oral Mucosa                             |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Osteosarcoma                            |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                                | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Prostate         |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands                         | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                    | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular                      | A | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | A | A | + | + | + | + | + | + | + | + | + |

**Cardiovascular System**

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:36  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 500PPM                   | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|  |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |   |   |  |
|  |             | 2         | 3 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |   |   |   |  |
|  |             | 0         | 5 | 2 | 6 | 6 | 6 | 6 | 7 | 8 | 8 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |   |   |   |   |  |
|  |             | 6         | 9 | 8 | 4 | 9 | 2 | 5 | 9 | 5 | 5 | 9 | 5 | 0 | 1 | 1 | 2 | 9 | 0 | 1 | 4 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 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 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |   |   |   |  |
|  |             | 3         | 6 | 3 | 7 | 8 | 1 | 2 | 2 | 4 | 6 | 6 | 8 | 0 | 0 | 1 | 4 | 4 | 4 | 5 | 6 | 6 | 6 | 0 | 6 | 6 | 9 | 9 | 9 | 6 | 2 | 9 |   |   |   |  |
|  |             | 8         | 3 | 3 | 2 | 5 | 8 | 0 | 6 | 2 | 1 | 8 | 7 | 8 | 1 | 9 | 7 | 6 | 9 | 7 | 7 | 8 | 9 | 2 | 7 | 8 | 0 | 1 | 2 | 0 | 7 | 7 |   |   |   |  |
| Blood Vessel                               |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |  |
| Heart                                      |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |  |
| <b>Endocrine System</b>                    |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Adrenal Cortex                             |             | +         | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |  |
| Adenoma                                    |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Adrenal Medulla                            |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Pheochromocytoma Benign                    |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |  |
| Islets, Pancreatic                         |             | +         | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Adenoma                                    |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Carcinoma                                  |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Carcinoma, Metastatic, Prostate            |             |           |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Parathyroid Gland                          |             | +         | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |   |  |
| Pituitary Gland                            |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Pars Distalis, Adenoma                     |             |           |   |   |   |   | X | X |   | X |   |   | X |   |   | X | X |   |   |   |   | X | X |   |   |   |   |   |   |   |   | X | X | X |   |  |
| Pars Distalis, Adenoma, Multiple           |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Thyroid Gland                              |             | A         | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| C Cell, Adenoma                            |             |           |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| C Cell, Carcinoma                          |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>General Body System</b>                 |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Tissue NOS                                 |             |           |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Abdominal, Carcinoma, Metastatic, Prostate |             |           |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:36  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F1 500PPM

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

Genital System

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Coagulating Gland                        | A | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma, Metastatic, Prostate          |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Epididymis                               | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma, Metastatic, Prostate          |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Preputial Gland                          | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Squamous Cell Carcinoma                  |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Prostate                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |  |
| Prostate, Dorsal Lobe                    | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma                                |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Prostate, Ventral Lobe                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | M | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma                                |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Rete Testes                              | + | + | + | M | + | A | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + |  |
| Seminal Vesicle                          | A | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma, Metastatic, Prostate          |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Testes                                   | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Capsule, Carcinoma, Metastatic, Prostate |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Seminoma Benign                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |  |

Hematopoietic System

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymph Node             |   |   |   |   |   |   |   |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   | + |
| Lymph Node, Mandibular | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:37  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 500PPM**

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

**Alimentary System**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Serosa, Carcinoma, Metastatic, Prostate |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Colon                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Serosa, Carcinoma, Metastatic, Prostate |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Rectum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 34 |
| Intestine Small, Duodenum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Serosa, Carcinoma, Metastatic, Prostate |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Ileum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Intestine Small, Jejunum                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Liver                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Carcinoma, Metastatic, Prostate         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Oral Mucosa                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Osteosarcoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Prostate         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Salivary Glands                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Stomach, Forestomach                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Stomach, Glandular                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |

**Cardiovascular System**

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:37  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 500PPM**

|  | 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 | 7       |
|  | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5       |
|  | 4           | 4 | 5 | 5 | 5 | 6 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0       |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |
|  | 6           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8       |
|  | 7           | 2 | 2 | 2 | 6 | 6 | 8 | 8 | 9 | 9 | 8 | 4 | 4 | 4 | 5 | 8 | 9 | 9 | 7       |
|  | 3           | 9 | 7 | 8 | 7 | 4 | 8 | 9 | 0 | 1 | 3 | 7 | 8 | 9 | 0 | 3 | 8 | 9 | 9       |
| Blood Vessel                               | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| Heart                                      | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| <b>Endocrine System</b>                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Adrenal Cortex                             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| Adenoma                                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Adrenal Medulla                            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| Pheochromocytoma Benign                    |             |   |   |   |   |   |   | X |   |   |   | X |   |   | X | X | X |   | 7       |
| Islets, Pancreatic                         | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| Adenoma                                    |             |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X | 5       |
| Carcinoma                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Carcinoma, Metastatic, Prostate            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Parathyroid Gland                          | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I       |
| Pituitary Gland                            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| Pars Distalis, Adenoma                     |             |   |   | X | X | X | X |   |   | X | X | X |   |   | X |   |   | X | X       |
| Pars Distalis, Adenoma, Multiple           |             |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1       |
| Thyroid Gland                              | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| C Cell, Adenoma                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| C Cell, Carcinoma                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1       |
| <b>General Body System</b>                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Tissue NOS                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Abdominal, Carcinoma, Metastatic, Prostate |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:37  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Male  
 F1 500PPM

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

**Genital System**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Coagulating Gland                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | 45 |
| Carcinoma, Metastatic, Prostate          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Epididymis                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Prostate          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Preputial Gland                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Squamous Cell Carcinoma                  |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Prostate                                 |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Prostate, Dorsal Lobe                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Prostate, Ventral Lobe                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Carcinoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Rete Testes                              | + | + | + | + | M | + | + | I | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Seminal Vesicle                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Carcinoma, Metastatic, Prostate          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Testes                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Capsule, Carcinoma, Metastatic, Prostate |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Seminoma Benign                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**Hematopoietic System**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lymph Node             |   | + |   |   |   |   |   |   | + | + |   |   |   |   | + |   |   |   |   | 8  |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 46 |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:37  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 500PPM**

|                                 | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | *TOTALS |
|---------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
|                                 | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
| ANIMAL ID                       | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |         |
|                                 | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |         |
|                                 | 4           | 4 | 5 | 5 | 5 | 6 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |         |
|                                 | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                 | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                 | 6           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |         |
|                                 | 7           | 2 | 2 | 2 | 6 | 6 | 8 | 8 | 9 | 9 | 8 | 4 | 4 | 4 | 5 | 8 | 9 | 9 |         |
|                                 | 3           | 9 | 7 | 8 | 7 | 4 | 8 | 9 | 0 | 1 | 3 | 7 | 8 | 9 | 0 | 3 | 8 | 9 |         |
| Lymph Node, Mesenteric          | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |         |
| Spleen                          | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |         |
| Sarcoma                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Thymus                          | +           | + | + | + | I | + | + | + | + | + | + | + | + | + | M | + | M | + |         |
| <b>Integumentary System</b>     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Mammary Gland                   | +           | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + |         |
| Fibroadenoma                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Skin                            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |         |
| Fibroma                         |             |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |         |
| Keratoacanthoma                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Lipoma                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |         |
| <b>Musculoskeletal System</b>   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Bone, Femur                     | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |         |
| Skeletal Muscle                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Carcinoma, Metastatic, Prostate |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| <b>Nervous System</b>           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Brain, Brain Stem               | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |         |
| Brain, Cerebellum               | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |         |
| Brain, Cerebrum                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |         |
| Granular Cell Tumor Malignant   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| <b>Respiratory System</b>       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:38  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 500PPM**

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

**Respiratory System**

|                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Carcinoma, Metastatic, Prostate |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Nose                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Squamous Cell Carcinoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Trachea                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |

**Special Senses System**

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 35 |
| Adventitia, Squamous Cell Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Harderian Gland                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 |
| Lacrimal Gland                      | + | + |   | + |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   | 14 |
| Zymbal's Gland                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**Urinary System**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Urethra                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Urinary Bladder                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Serosa, Carcinoma, Metastatic, Prostate |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**SYSTEMIC LESIONS**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |

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

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





Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
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**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:38  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 5PPM/CTL         | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|--|
|                                    | 0<br>4<br>0<br>6      | 0<br>4<br>8<br>6      | 0<br>5<br>6<br>5      | 0<br>5<br>8<br>4      | 0<br>6<br>2<br>7      | 0<br>6<br>5<br>5      | 0<br>6<br>6<br>9      | 0<br>6<br>6<br>9      | 0<br>6<br>8<br>9      | 0<br>7<br>1<br>3      | 0<br>7<br>1<br>3      | 0<br>7<br>2<br>4      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>6      | 0<br>7<br>3<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      |   |  |
| ANIMAL ID                          | 0<br>0<br>0<br>9<br>2 | 0<br>0<br>1<br>2<br>1 | 0<br>0<br>1<br>7<br>6 | 0<br>0<br>1<br>9<br>9 | 0<br>0<br>2<br>5<br>4 | 0<br>0<br>3<br>0<br>2 | 0<br>0<br>3<br>1<br>9 | 0<br>0<br>3<br>2<br>9 | 0<br>0<br>3<br>6<br>9 | 0<br>0<br>4<br>0<br>1 | 0<br>0<br>4<br>1<br>3 | 0<br>0<br>4<br>4<br>4 | 0<br>0<br>4<br>5<br>5 | 0<br>0<br>4<br>4<br>2 | 0<br>0<br>5<br>4<br>5 | 0<br>0<br>4<br>4<br>7 | 0<br>0<br>5<br>5<br>7 | 0<br>0<br>5<br>5<br>7 | 0<br>0<br>5<br>5<br>3 | 0<br>0<br>5<br>5<br>4 | 0<br>0<br>5<br>5<br>5 | 0<br>0<br>5<br>5<br>9 | 0<br>0<br>5<br>5<br>9 | 0<br>0<br>5<br>5<br>9 | 0<br>0<br>5<br>5<br>9 | 0<br>0<br>5<br>5<br>9 | 0<br>0<br>6<br>9<br>2 | 0<br>0<br>6<br>9<br>4 |   |  |
| Adrenal Medulla                    | +                     | +                     | +                     | A                     | +                     | A                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + |  |
| Bilateral, Pheochromocytoma Benign |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| Pheochromocytoma Benign            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| Pheochromocytoma Malignant         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| Islets, Pancreatic                 | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + |  |
| Parathyroid Gland                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + |  |
| Pituitary Gland                    | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + |  |
| 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 |  |
| Thyroid Gland                      | +                     | +                     | +                     | A                     | +                     | +                     | A                     | +                     | A                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + |  |
| C Cell, Adenoma                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| Follicular Cel, Adenoma            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| <b>General Body System</b>         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| NONE                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| <b>Genital System</b>              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| Coagulating Gland                  | +                     | +                     | +                     | A                     | +                     | A                     | A                     | +                     | A                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + |  |
| Epididymis                         | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + |  |
| Penis                              |                       |                       |                       | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| Preputial Gland                    | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + |  |
| Sarcoma                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| Squamous Cell Carcinoma            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| Prostate                           |                       |                       |                       |                       | +                     | +                     |                       |                       |                       |                       | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |  |
| Prostate, Dorsal Lobe              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 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: 99930-94  
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Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:38  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 5PPM/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 | 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 |
| Prostate, Ventral Lobe Adenoma | 4           | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
| Rete Testes                    | 0           | 8 | 6 | 8 | 2 | 5 | 6 | 6 | 8 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
| Seminal Vesicle                | 6           | 6 | 5 | 4 | 7 | 5 | 5 | 9 | 9 | 3 | 3 | 4 | 1 | 4 | 6 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |   |
| Testes                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| <b>Hematopoietic System</b>    | 0           | 0 | 0 | 0 | 0 | 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 Marrow                    | 0           | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |   |
| Lymph Node                     | 9           | 2 | 7 | 9 | 5 | 0 | 1 | 2 | 6 | 0 | 1 | 3 | 4 | 5 | 2 | 7 | 7 | 7 | 1 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |   |
| Lymph Node, Mandibular         | 2           | 1 | 6 | 9 | 4 | 2 | 9 | 9 | 6 | 9 | 0 | 6 | 8 | 9 | 5 | 2 | 3 | 7 | 3 | 7 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 9 |   |
| Lymph Node, Mesenteric         | +           | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Spleen                         | +           | + | A | A | + | A | A | + | A | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Thymus                         | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| <b>Integumentary System</b>    | +           | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Mammary Gland                  | +           | I | A | + | I | A | A | I | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Skin                           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Fibroma                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibrosarcoma                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lipoma                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sebaceous Gl, Carcinoma        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* ..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: 99930-94

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:28:39

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

| CD Rat Male<br>F1 5PPM/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 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 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 |
|                            |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                            |             | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 |
|                            |             | 9 | 2 | 7 | 9 | 5 | 0 | 1 | 2 | 6 | 0 | 1 | 3 | 4 | 5 | 2 | 7 | 7 | 1 | 7 | 7 | 9 | 9 | 9 | 9 | 0 | 2 | 3 |
|                            |             | 2 | 1 | 6 | 9 | 4 | 2 | 9 | 9 | 6 | 9 | 0 | 6 | 8 | 9 | 5 | 2 | 3 | 7 | 3 | 4 | 5 | 6 | 6 | 8 | 2 | 4 | 6 |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Squamous Cell Carcinoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Musculoskeletal System                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Bone, Femur  | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Nervous System                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Brain, Brain Stem                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Brain, Cerebellum                                    | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Granular Cell Tumor Benign                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |  |
| Brain, Cerebrum                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Respiratory System                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lung   | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Fibrosarcoma, Metastatic, Skin                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |
| Squamous Cell Carcinoma, Metastatic, Preputial Gland |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Nose   | + | + | + | + | + | A | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Trachea  | + | + | + | + | + | + | A | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Special Senses System                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Eye  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Harderian Gland                                      |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lacrimal Gland                                       |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:39  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 5PPM/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 | 0 | 0 | 0 | 0 | 0 | 0 |
|                            |             | 4         | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 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 | 0 | 0 | 0 | 0 | 0 |   |
|                            |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                            |             | 0         | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 |   |
|                            |             | 9         | 2 | 7 | 9 | 5 | 0 | 1 | 2 | 6 | 0 | 1 | 3 | 4 | 5 | 2 | 7 | 7 | 7 | 1 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 2 | 3 |   |
|                            |             | 2         | 1 | 6 | 9 | 4 | 2 | 9 | 9 | 6 | 9 | 0 | 6 | 8 | 5 | 2 | 3 | 7 | 3 | 7 | 3 | 4 | 5 | 6 | 7 | 8 | 2 | 4 | 6 |   |
| Kidney                     |             | +         | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Urethra                    |             |           |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder            |             | +         | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| <b>SYSTEMIC LESIONS</b>    |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Multiple Organ             |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Leukemia Mononuclear       |             |           |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant         |             |           |   |   | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:39  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 5PPM/CTL**

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

**\*TOTALS**

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                 |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |

**Cardiovascular System**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

**Endocrine System**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Adenoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:39  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 5PPM/CTL         | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | *TOTALS |  |
|------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------|--|
|                                    |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |         |  |
|                                    |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |           |         |  |
|                                    |             | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 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         |         |  |
|                                    |             | 6 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 6         |         |  |
|                                    |             | 8 | 0 | 1 | 3 | 4 | 4 | 7 | 0 | 9 | 9 | 5 | 6 | 9 | 9 | 9 | 9 | 0 | 2 | 2         | 8       |  |
|                                    |             | 5 | 0 | 6 | 7 | 0 | 1 | 4 | 4 | 8 | 9 | 6 | 0 | 2 | 3 | 4 | 5 | 3 | 0 | 3         | 5       |  |
| Adrenal Medulla                    |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           | 47      |  |
| Bilateral, Pheochromocytoma Benign |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1       |  |
| Pheochromocytoma Benign            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |           | 2       |  |
| Pheochromocytoma Malignant         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1       |  |
| Islets, Pancreatic                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           | 49      |  |
| Parathyroid Gland                  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           | 48      |  |
| Pituitary Gland                    |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           | 49      |  |
| Pars Distalis, Adenoma             |             | X |   | X |   |   | X |   |   |   | X |   |   |   | X |   | X | X | X |           | 18      |  |
| Thyroid Gland                      |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           | 46      |  |
| C Cell, Adenoma                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1       |  |
| Follicular Cel, Adenoma            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1       |  |
| <b>General Body System</b>         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |         |  |
| NONE                               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |         |  |
| <b>Genital System</b>              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |         |  |
| Coagulating Gland                  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           | 45      |  |
| Epididymis                         |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           | 50      |  |
| Penis                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1       |  |
| Preputial Gland                    |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           | 50      |  |
| Sarcoma                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1       |  |
| Squamous Cell Carcinoma            |             |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |           | 2       |  |
| Prostate                           |             |   |   |   |   |   |   |   |   | + |   |   |   |   |   | + | + |   |   |           | 8       |  |
| Prostate, Dorsal Lobe              |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           | 49      |  |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:39  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 5PPM/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 | 7 |
|                                | 4              | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|                                | 3              | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 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 |
|                                | 6              | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 |
|                                | 8              | 0 | 1 | 3 | 4 | 4 | 7 | 0 | 9 | 9 | 5 | 6 | 9 | 9 | 9 | 9 | 0 | 2 | 2 |
|                                | 5              | 0 | 6 | 7 | 0 | 1 | 4 | 4 | 8 | 9 | 6 | 0 | 2 | 3 | 4 | 5 | 3 | 0 | 3 |
|                                | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Prostate, Ventral Lobe         | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                        |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Rete Testes                    | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle                | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes                         | +              | + | + |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Hematopoietic System</b>    |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone Marrow                    | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node                     |                |   |   | + |   | + |   | + |   | + | + | + |   |   | + |   |   | + | + |
| Lymph Node, Mandibular         | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosarcoma, Metastatic, Skin |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mesenteric         | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                         | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus                         | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + |
| <b>Integumentary System</b>    |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mammary Gland                  | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin                           | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroma                        |                |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Fibrosarcoma                   |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lipoma                         |                |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Sarcoma                        |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant           |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sebaceous GI, Carcinoma        |                |   |   | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:39  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 5PPM/CTL           | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
|                                      | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |         |
|                                      |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |         |
|                                      |             | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 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 |         |
|                                      |             | 6 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 |         |
|                                      |             | 8 | 0 | 1 | 3 | 4 | 4 | 7 | 0 | 9 | 9 | 5 | 6 | 9 | 9 | 9 | 0 | 2 | 2 |         |
|                                      |             | 5 | 0 | 6 | 7 | 0 | 1 | 4 | 4 | 8 | 9 | 6 | 0 | 2 | 3 | 4 | 5 | 3 | 3 |         |
| Squamous Cell Carcinoma              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| <b>Musculoskeletal System</b>        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Bone, Femur                          |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| <b>Nervous System</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Brain, Brain Stem                    |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Brain, Cerebellum                    |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Granular Cell Tumor Benign           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Brain, Cerebrum                      |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| <b>Respiratory System</b>            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Lung                                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48      |
| Fibrosarcoma, Metastatic, Skin       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Squamous Cell Carcinoma, Metastatic, |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Preputial Gland                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Nose                                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47      |
| Trachea                              |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47      |
| <b>Special Senses System</b>         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Eye                                  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37      |
| Harderian Gland                      |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39      |
| Lacrimal Gland                       |             |   |   |   | + |   |   |   |   |   |   |   |   | + |   |   |   | + |   | 14      |
| <b>Urinary System</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:40  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 5PPM/CTL**

|                         | DAY ON TEST | ANIMAL ID |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | *TOTALS |
|-------------------------|-------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
|                         |             | 073       | 074 | 075 | 076 | 077 | 078 | 079 | 080 | 081 | 082 | 083 | 084 | 085 | 086 | 087 | 088 | 089 | 090 |         |
|                         |             | 0         | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |         |
|                         |             | 7         | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   |         |
|                         |             | 4         | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 5   | 5   | 5   | 5   | 5   | 5   |         |
|                         |             | 3         | 3   | 4   | 4   | 4   | 4   | 4   | 5   | 8   | 9   | 9   | 9   | 0   | 0   | 0   | 0   | 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   |         |
|                         |             | 6         | 7   | 7   | 7   | 7   | 7   | 7   | 8   | 7   | 7   | 8   | 8   | 8   | 8   | 8   | 9   | 9   | 9   |         |
|                         |             | 8         | 0   | 1   | 3   | 4   | 4   | 7   | 0   | 9   | 9   | 5   | 6   | 9   | 9   | 9   | 0   | 2   | 2   |         |
|                         |             | 5         | 0   | 6   | 7   | 0   | 1   | 4   | 4   | 8   | 9   | 6   | 0   | 2   | 3   | 4   | 5   | 3   | 0   |         |
|                         |             |           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |         |
| Kidney                  |             | +         | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 48      |
| Urethra                 |             |           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 1       |
| Urinary Bladder         |             | +         | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 48      |
| <b>SYSTEMIC LESIONS</b> |             |           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |         |
| Multiple Organ          |             | +         | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 50      |
| Leukemia Mononuclear    |             |           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 1       |
| Lymphoma Malignant      |             |           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 1       |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:40  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 100PPM/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 |   |   |   |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                              |             | 2 | 3 | 3 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |   |
|                              | ANIMAL ID   | 6 | 5 | 6 | 5 | 0 | 0 | 1 | 2 | 3 | 4 | 4 | 7 | 7 | 0 | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
|                              | 7           | 0 | 0 | 2 | 6 | 3 | 5 | 0 | 7 | 1 | 4 | 8 | 6 | 8 | 2 | 3 | 2 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 2 | 4 | 4 |   |
|                              | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                              | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
|                              | 4           | 6 | 6 | 1 | 1 | 2 | 2 | 4 | 6 | 8 | 9 | 4 | 4 | 8 | 9 | 3 | 7 | 7 | 7 | 7 | 0 | 8 | 1 | 1 | 1 | 2 | 2 | 7 | 3 | 3 | 7 | 8 |   |
|                              | 2           | 1 | 4 | 6 | 7 | 5 | 6 | 0 | 9 | 6 | 0 | 6 | 9 | 8 | 1 | 0 | 4 | 5 | 6 | 3 | 3 | 4 | 5 | 9 | 0 | 6 | 9 | 1 | 2 | 9 | 1 |   |   |

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum    | + | + | A | A | A | + | + | M | + | A | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon    | + | + | A | A | A | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | A | A | A | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum    | + | A | A | A | A | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Small, Jejunum  | + | A | A | A | A | + | + | + | + | A | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                     | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Cholangiocarcinoma        |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                  | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands           | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach      | + | + | + | A | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular        | + | + | A | A | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |

**Cardiovascular System**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Heart        | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**Endocrine System**

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:40  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male  
 F1 100PPM/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 | 0 | 0 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 2 | 3 | 3 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID  | 6 | 5 | 6 | 5 | 0 | 0 | 1 | 2 | 3 | 4 | 4 | 7 | 7 | 0 | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
|  | 7 | 0 | 2 | 6 | 3 | 5 | 0 | 7 | 1 | 4 | 8 | 6 | 8 | 2 | 3 | 2 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 2 | 4 | 4 |
| Adenocarcinoma                                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 Adenocarcinoma                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rete Testes  | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| Seminal Vesicle Adenocarcinoma, Metastatic, Prostate | 4 | 6 | 6 | 1 | 1 | 2 | 2 | 4 | 6 | 8 | 9 | 4 | 4 | 8 | 9 | 3 | 7 | 7 | 7 | 0 | 8 | 1 | 1 | 1 | 2 | 2 | 7 | 3 | 3 | 7 | 8 |
| Testes   | 2 | 1 | 4 | 6 | 7 | 5 | 6 | 0 | 9 | 6 | 0 | 6 | 9 | 8 | 1 | 0 | 4 | 5 | 6 | 3 | 3 | 4 | 5 | 9 | 0 | 6 | 9 | 1 | 2 | 9 | 1 |
| <b>Hematopoietic System</b>                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone Marrow  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mesenteric                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spleen   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemangiosarcoma                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymus   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Integumentary System</b>                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mammary Gland  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Keratoacanthoma                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lipoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Benign                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:41  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 100PPM/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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                              |             | 2         | 3 | 3 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |
|                              |             | 6         | 5 | 6 | 5 | 0 | 0 | 1 | 2 | 3 | 4 | 4 | 7 | 7 | 0 | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |   |
|                              |             | 7         | 0 | 2 | 6 | 3 | 5 | 0 | 7 | 1 | 4 | 8 | 6 | 8 | 2 | 3 | 2 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 2 | 4 | 4 |
|                              |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                              |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
|                              |             | 4         | 6 | 6 | 1 | 1 | 2 | 2 | 4 | 6 | 8 | 9 | 4 | 4 | 8 | 9 | 3 | 7 | 7 | 7 | 0 | 8 | 1 | 1 | 1 | 2 | 2 | 7 | 3 | 3 | 7 | 8 |
|                              |             | 2         | 1 | 4 | 6 | 7 | 5 | 6 | 0 | 9 | 6 | 0 | 6 | 9 | 8 | 1 | 0 | 4 | 5 | 6 | 3 | 3 | 4 | 5 | 9 | 0 | 6 | 9 | 1 | 2 | 9 | 1 |
| Eye                          |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland              |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lacrimal Gland               |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Zymbal's Gland               |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                    |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Urinary System</b>        |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Kidney                       |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urethra                      |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder              |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>SYSTEMIC LESIONS</b>      |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Multiple Organ               |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant           |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:41  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 100PPM/CTL**

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

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Large, Cecum    | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Intestine Large, Colon    | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Intestine Large, Rectum   | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 33 |
| Intestine Small, Duodenum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Intestine Small, Ileum    | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Adenocarcinoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Intestine Small, Jejunum  | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Liver                     | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Cholangiocarcinoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Adenoma    |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                  | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Salivary Glands           | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Stomach, Forestomach      | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Stomach, Glandular        | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |

**Cardiovascular System**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Heart        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

**Endocrine System**

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:41  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 100PPM/CTL**

|                                      | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|----|
|                                      | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         | 0  |
| ANIMAL ID                            | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7       |    |
|                                      | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5       |    |
|                                      | 4           | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 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       |    |
|                                      | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9       |    |
|                                      | 4           | 3 | 3 | 7 | 7 | 6 | 6 | 7 | 0 | 9 | 8 | 5 | 9 | 9 | 2 | 8 | 0 | 2 | 2       |    |
|                                      | 3           | 3 | 4 | 2 | 3 | 8 | 9 | 0 | 6 | 7 | 5 | 7 | 0 | 1 | 5 | 7 | 1 | 1 | 2       |    |
|                                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | *TOTALS |    |
| Adrenal Cortex                       | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 46 |
| Adenoma                              |             |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |         | 1  |
| Adrenal Medulla                      | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 46 |
| Pheochromocytoma Malignant           |             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |         | 1  |
| Islets, Pancreatic                   | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 46 |
| Adenoma                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Parathyroid Gland                    | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | +       | 47 |
| Pituitary Gland                      | +           | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | I       | 48 |
| Pars Distalis, Adenoma               | X           |   | X |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |         | 13 |
| Thyroid Gland                        | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 44 |
| C Cell, Carcinoma                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| <b>General Body System</b>           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| NONE                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| <b>Genital System</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| Coagulating Gland                    | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 45 |
| Adenocarcinoma, Metastatic, Prostate |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Epididymis                           | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 47 |
| Preputial Gland                      | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 48 |
| Adventitia, Squamous Cell Carcinoma  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Squamous Cell Carcinoma              |             |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Prostate                             |             |   |   | + |   |   |   |   |   |   |   | + |   |   |   |   |   |   |         | 6  |
| Prostate, Dorsal 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: 99930-94  
 Test Type: SPECIAL STUDY  
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**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:41  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 100PPM/CTL**

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

**\*TOTALS**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adenocarcinoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Prostate, Ventral Lobe               | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Adenocarcinoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Rete Testes                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Seminal Vesicle                      | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Adenocarcinoma, Metastatic, Prostate |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Testes                               | + | + |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| <b>Hematopoietic System</b>          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Bone Marrow                          | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Lymph Node                           |   |   |   | + |   |   |   |   |   | + | + | + | + |   | + | + | + |   | + | 14 |
| Lymph Node, Mandibular               | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Lymph Node, Mesenteric               | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Spleen                               | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Hemangiosarcoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Thymus                               | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| <b>Integumentary System</b>          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Mammary Gland                        | A | + | + | + | I | + | + | + | + | I | + | + | I | + | + | + | + | + | + | 34 |
| Skin                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Keratoacanthoma                      | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lipoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Sarcoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Schwannoma Benign                    |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:41  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 100PPM/CTL**

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

**\*TOTALS**

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Squamous Cell Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| <b>Musculoskeletal System</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone, Cranium                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Osteoma                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Bone, Femur                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| <b>Nervous System</b>         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Brain, Brain Stem             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Brain, Cerebellum             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Astrocytoma Malignant         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Granular Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Brain, Cerebrum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Astrocytoma Malignant         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Granular Cell Tumor Benign    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Granular Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| <b>Respiratory System</b>     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung                          | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Nose                          | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Squamous Cell Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Trachea                       | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| <b>Special Senses System</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eye                           | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + |   |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:41  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 100PPM/CTL | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
|                              | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |         |
|                              |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |         |
|                              |             | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 8 | 9 | 9 | 9 | 0 | 0 | 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 |         |
|                              |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 |         |
|                              |             | 4 | 3 | 3 | 7 | 7 | 6 | 6 | 7 | 0 | 9 | 8 | 5 | 9 | 9 | 2 | 8 | 0 | 2 |         |
|                              |             | 3 | 3 | 4 | 2 | 3 | 8 | 9 | 0 | 6 | 7 | 5 | 7 | 0 | 1 | 5 | 7 | 1 | 1 |         |
| Eye                          | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | 33      |
| Harderian Gland              | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 33      |
| Lacrimal Gland               |             |   | + | + |   |   | + | + |   |   |   | + |   |   |   |   |   | + | + | 12      |
| Zymbal's Gland               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Carcinoma                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| <b>Urinary System</b>        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Kidney                       | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46      |
| Urethra                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 1       |
| Urinary Bladder              | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46      |
| <b>SYSTEMIC LESIONS</b>      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Multiple Organ               |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Lymphoma Malignant           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2       |

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

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:42  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 500PPM/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 |   |   |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                              | ANIMAL ID   | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |
|                              |             | 4 | 3 | 6 | 8 | 7 | 7 | 9 | 9 | 0 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |   |   |
|                              |             | 9 | 4 | 8 | 8 | 4 | 5 | 8 | 9 | 5 | 1 | 1 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 3 | 3 | 4 | 4 | 4 | 4 |   |   |
|                              | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|                              | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|                              | 1           | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |   |   |
|                              | 0           | 3 | 8 | 0 | 4 | 4 | 8 | 8 | 9 | 0 | 3 | 4 | 7 | 7 | 8 | 1 | 2 | 2 | 2 | 2 | 7 | 8 | 9 | 0 | 0 | 3 | 3 | 8 | 8 |   |   |
|                              | 5           | 8 | 0 | 2 | 3 | 8 | 1 | 4 | 6 | 0 | 4 | 1 | 8 | 9 | 0 | 6 | 1 | 2 | 3 | 4 | 8 | 0 | 9 | 0 | 1 | 4 | 5 | 3 | 0 | 2 | 5 |

**Endocrine System**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                   | A | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |   |
| Adenoma                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla                  | A | + | + | A | + | + | + | + | A | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |   |
| Pheochromocytoma Benign          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Complex         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pheochromocytoma Malignant       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic               | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                          |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parathyroid Gland                | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | I | + | + | + | + | + | + |   |
| Adenoma                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Pituitary Gland                  | A | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Pars Distalis, Adenoma           |   |   |   |   |   |   |   |   | X | X | X | X |   |   |   | X |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |
| Pars Distalis, Adenoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland                    | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| C Cell, Adenoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicular Cel, Adenoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**General Body System**

NONE

**Genital System**

|                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland | A | A | + | + | + | + | + | + | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:42  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 500PPM/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 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | ANIMAL ID   | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|  |             | 4 | 3 | 6 | 8 | 7 | 7 | 9 | 9 | 0 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
|  |             | 9 | 4 | 8 | 8 | 4 | 5 | 8 | 9 | 5 | 1 | 1 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 3 | 3 | 4 | 4 |
| Epididymis                             | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Preputial Gland                        | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Squamous Cell Carcinoma                |             |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Prostate                               | A           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |
| Prostate, Dorsal Lobe                  | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Carcinoma, Metastatic, Urinary Bladder |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Prostate, Ventral Lobe                 | A           | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Carcinoma                              |             | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Urinary Bladder |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Rete Testes                            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Seminal Vesicle                        | A           | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Testes                                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Seminoma Benign                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Hematopoietic System</b>            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone Marrow                            | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymph Node                             |             |   |   |   | + | + |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |
| Lymph Node, Mandibular                 | A           | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymph Node, Mesenteric                 | A           | A | + | + | + | + | + | + | A | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Spleen                                 | A           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Thymus                                 | A           | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |   |
| <b>Integumentary System</b>            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mammary Gland                          | I           | A | I | + | + | + | + | + | A | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |

\* ..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: 99930-94

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:28:42

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

| CD Rat Male<br>F1 500PPM/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 |  |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                               | ANIMAL ID   | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |  |
|                               |             | 4 | 3 | 6 | 8 | 7 | 7 | 9 | 9 | 0 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |  |
|                               |             | 9 | 4 | 4 | 8 | 4 | 5 | 8 | 9 | 5 | 1 | 1 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 3 | 3 | 4 | 4 | 4 | 4 |  |
|                               |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|                               |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|                               |             | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |  |
|                               |             | 0 | 3 | 8 | 0 | 4 | 4 | 8 | 8 | 9 | 0 | 3 | 4 | 7 | 7 | 8 | 1 | 2 | 2 | 2 | 2 | 7 | 8 | 9 | 0 | 0 | 3 | 3 | 3 | 8 |  |
|                               |             | 5 | 8 | 0 | 2 | 3 | 8 | 1 | 4 | 6 | 0 | 4 | 1 | 8 | 9 | 0 | 6 | 1 | 2 | 2 | 3 | 4 | 8 | 0 | 1 | 4 | 5 | 3 | 3 | 0 |  |
| Skin                          |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Fibroma                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Sarcoma                       |             | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>Musculoskeletal System</b> |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Bone, Femur                   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Skeletal Muscle               |             |   |   |   |   |   |   |   |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>Nervous System</b>         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Brain, Brain Stem             |             | A | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Astrocytoma Malignant         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Glioma Malignant              |             |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Brain, Cerebellum             |             | A | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Brain, Cerebrum               |             | A | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Astrocytoma Malignant         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Glioma Malignant              |             |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>Respiratory System</b>     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lung                          |             | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Nose                          |             | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Trachea                       |             | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| <b>Special Senses System</b>  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Ear                           |             |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Neural Crest Tumor            |             |   |   |   |   |   |   |   |   | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:43  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Male<br>F1 500PPM/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 | 0 | 0 | 0 | 0 | 0 |   |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                              |             | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|                              |             | 4 | 3 | 6 | 8 | 7 | 7 | 9 | 9 | 0 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |
|                              | ANIMAL ID   | 9 | 4 | 8 | 8 | 4 | 5 | 8 | 9 | 5 | 1 | 1 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |
| Neural Crest Tumor           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
| Eye                          | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
| Harderian Gland              | 1           | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |   |   |
| Lacrimal Gland               | 0           | 3 | 8 | 0 | 4 | 4 | 8 | 8 | 9 | 0 | 3 | 4 | 7 | 7 | 8 | 1 | 2 | 2 | 2 | 2 | 7 | 8 | 9 | 0 | 0 | 3 | 3 | 3 | 8 | 8 | 3 | 3 | 5 |   |   |   |
| Urinary System               | 5           | 8 | 0 | 2 | 3 | 8 | 1 | 4 | 6 | 0 | 4 | 1 | 8 | 9 | 0 | 6 | 1 | 2 | 3 | 4 | 8 | 0 | 9 | 0 | 1 | 4 | 5 | 3 | 0 | 2 | 5 | 5 | 5 |   |   |   |
| Kidney                       | X           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urethra                      |             |   |   |   |   |   |   |   | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Urinary Bladder              |             |   |   |   |   |   |   |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Transit Epithe, Carcinoma    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| SYSTEMIC LESIONS             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Multiple Organ               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                              |             |   |   |   | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:43  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 500PPM/CTL**

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

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Adenoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Sarcoma                   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Acinar Cell, Adenoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |

**Cardiovascular System**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Heart        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:43  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 500PPM/CTL**

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

**Endocrine System**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Adenoma                          |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Adrenal Medulla                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Pheochromocytoma Benign          |   |   | X |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   | 4  |
| Pheochromocytoma Complex         |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pheochromocytoma Malignant       | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | 2  |
| Islets, Pancreatic               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Adenoma                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 3  |
| Parathyroid Gland                | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Adenoma                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pituitary Gland                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pars Distalis, Adenoma           | X |   |   |   |   | X |   | X |   | X |   |   |   |   | X |   | X | X | X | 15 |
| Pars Distalis, Adenoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | 1  |
| Thyroid Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| C Cell, Adenoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Follicular Cel, Adenoma          |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | 1  |

**General Body System**

NONE

**Genital System**

|                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:43  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 500PPM/CTL**

|  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                |  |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|--|
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0              |  |
|  | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7              |  |
|  | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5              |  |
|  | 4           | 4 | 5 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 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              |  |
|  | 7           | 7 | 7 | 8 | 8 | 8 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 9 | 9 |                |  |
|  | 3           | 3 | 7 | 0 | 0 | 0 | 8 | 8 | 2 | 5 | 5 | 5 | 0 | 6 | 6 | 8 | 8 | 2 | 2 |                |  |
|  | 8           | 9 | 1 | 0 | 1 | 2 | 6 | 7 | 4 | 3 | 8 | 9 | 4 | 4 | 5 | 8 | 8 | 5 | 4 | <b>*TOTALS</b> |  |
| Epididymis                             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49             |  |
| Preputial Gland                        | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49             |  |
| Squamous Cell Carcinoma                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1              |  |
| Prostate                               |             |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   | 3              |  |
| Prostate, Dorsal Lobe                  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49             |  |
| Carcinoma, Metastatic, Urinary Bladder |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1              |  |
| Prostate, Ventral Lobe                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48             |  |
| Carcinoma                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1              |  |
| Carcinoma, Metastatic, Urinary Bladder |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1              |  |
| Rete Testes                            | +           | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | 49             |  |
| Seminal Vesicle                        | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47             |  |
| Testes                                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50             |  |
| Seminoma Benign                        |             |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 1              |  |
| <b>Hematopoietic System</b>            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                |  |
| Bone Marrow                            | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49             |  |
| Lymph Node                             |             |   |   | + |   |   |   |   |   |   |   |   |   |   | + | + |   |   |   | 9              |  |
| Lymph Node, Mandibular                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48             |  |
| Lymph Node, Mesenteric                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46             |  |
| Spleen                                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49             |  |
| Thymus                                 | +           | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 45             |  |
| <b>Integumentary System</b>            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                |  |
| Mammary Gland                          | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45             |  |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:43  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 500PPM/CTL**

|                               | DAY ON TEST    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
|                               | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   | 0  |
| ANIMAL ID                     | 7              | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |    |
|                               | 4              | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |    |
|                               | 4              | 4 | 5 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 |    |
|                               | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |    |
|                               | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |    |
|                               | 7              | 7 | 7 | 8 | 8 | 8 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 9 | 9 |    |
|                               | 3              | 3 | 7 | 0 | 0 | 0 | 8 | 8 | 2 | 5 | 5 | 5 | 0 | 6 | 6 | 8 | 8 | 2 | 2 |    |
|                               | 8              | 9 | 1 | 0 | 1 | 2 | 6 | 7 | 4 | 3 | 8 | 9 | 4 | 4 | 5 | 8 | 8 | 5 | 4 |    |
|                               | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Skin                          | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibroma                       |                |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 2  |
| Sarcoma                       |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| <b>Musculoskeletal System</b> |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Bone, Femur                   | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle               |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| <b>Nervous System</b>         |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Brain, Brain Stem             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Astrocytoma Malignant         |                |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 1  |
| Glioma Malignant              |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Brain, Cerebellum             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Brain, Cerebrum               | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Astrocytoma Malignant         |                |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 1  |
| Glioma Malignant              |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| <b>Respiratory System</b>     |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Lung                          | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Nose                          | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Trachea                       | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| <b>Special Senses System</b>  |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Ear                           |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Neural Crest Tumor            |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:43  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Male**  
**F1 500PPM/CTL**

| DAY ON TEST               | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID                 | 7              | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                           | 4              | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 |
|                           | 4              | 4 | 5 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 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 |
|                           | 7              | 7 | 7 | 8 | 8 | 8 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 9 | 9 |
|                           | 3              | 3 | 7 | 0 | 0 | 0 | 8 | 8 | 2 | 5 | 5 | 5 | 0 | 6 | 6 | 8 | 8 | 2 | 2 |
|                           | 8              | 9 | 1 | 0 | 1 | 2 | 6 | 7 | 4 | 3 | 8 | 9 | 4 | 4 | 5 | 8 | 9 | 5 | 4 |
|                           | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Neural Crest Tumor        |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Eye                       | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland           | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland            |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5 |
| <b>Urinary System</b>     |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Kidney                    | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urethra                   |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Urinary Bladder           | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Transit Epithe, Carcinoma |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| <b>SYSTEMIC LESIONS</b>   |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Multiple Organ            | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant        |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |

\*\*\*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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:43  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 OPPM | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                          |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|                          | 2           | 3         | 3 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |   |   |
|                          | 2           | 3         | 6 | 2 | 3 | 1 | 1 | 8 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 5 | 5 | 6 | 9 | 9 | 9 | 1 | 1 | 1 | 2 | 3 | 3 | 3 |   |   |
|                          | 4           | 1         | 7 | 5 | 6 | 4 | 4 | 3 | 7 | 2 | 5 | 6 | 6 | 6 | 8 | 6 | 8 | 4 | 6 | 9 | 8 | 8 | 8 | 0 | 5 | 7 | 3 | 1 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|                          | 0           | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |   |   |
|                          | 4           | 5         | 6 | 9 | 0 | 2 | 2 | 9 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 0 | 9 | 2 | 7 | 8 | 8 | 1 | 2 | 2 | 2 | 5 | 8 | 8 | 9 |
|                          | 0           | 8         | 6 | 8 | 1 | 7 | 8 | 8 | 4 | 3 | 2 | 6 | 7 | 8 | 5 | 3 | 7 | 0 | 8 | 5 | 8 | 0 | 3 | 7 | 0 | 2 | 9 | 3 | 1 | 8 | 0 |   |

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |   |   |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |   |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |   |
| Intestine Large, Rectum   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Small, Duodenum | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |   |   |   |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Cholangioma               |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lipoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**Cardiovascular System**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |   |   |
| Heart        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**Endocrine System**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* ..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: 99930-94

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:28:44

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

| CD Rat Female<br>F1 OPPM   | 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 | 0 | 0 |   |   |   |   |  |
|----------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                            | ANIMAL ID   | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |   |   |  |
|                            |             | 4 | 1 | 7 | 5 | 6 | 4 | 4 | 3 | 7 | 2 | 5 | 6 | 6 | 6 | 8 | 6 | 8 | 4 | 6 | 9 | 8 | 8 | 8 | 8 | 0 | 5 | 7 | 3 | 1 | 7 | 3 | 1 | 7 | 7 |   |  |
| Adenoma                    |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Adrenal Medulla            |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Islets, Pancreatic         |             | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |
| Parathyroid Gland          |             | 4 | 5 | 6 | 9 | 0 | 2 | 2 | 9 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 0 | 9 | 2 | 7 | 8 | 8 | 8 | 1 | 2 | 2 | 2 | 5 | 8 | 8 | 9 | 0 | 0 |   |  |
| Pituitary Gland            |             | 0 | 8 | 6 | 8 | 1 | 7 | 8 | 8 | 4 | 3 | 2 | 6 | 7 | 8 | 5 | 3 | 7 | 0 | 8 | 5 | 8 | 0 | 3 | 7 | 0 | 2 | 9 | 3 | 1 | 8 | 0 | 0 | 0 | 0 |   |  |
| Pars Distalis, Adenoma     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Thyroid Gland              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| C Cell, Adenoma            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>General Body System</b> |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| NONE                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>Genital System</b>      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Clitoral Gland             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Squamous Cell Papilloma    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Ovary                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Oviduct                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Uterus                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Polyp Stromal              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Sarcoma Stromal            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Vagina                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Granular Cell Tumor Benign |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Sarcoma Stromal            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:44  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 OPPM | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                          |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|                          | 2           | 3         | 3 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |   |   |
|                          | 2           | 3         | 6 | 2 | 3 | 1 | 1 | 8 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 5 | 5 | 6 | 9 | 9 | 9 | 1 | 1 | 1 | 2 | 3 | 3 |   |   |   |
|                          | 4           | 1         | 7 | 5 | 6 | 4 | 4 | 3 | 7 | 2 | 5 | 6 | 6 | 6 | 8 | 6 | 8 | 4 | 6 | 9 | 8 | 8 | 8 | 8 | 0 | 5 | 7 | 3 | 1 |   |   |   |
|                          | 0           | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |   |
|                          | 0           | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |   |
|                          | 0           | 0         | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |   |   |   |
|                          | 4           | 5         | 6 | 9 | 0 | 2 | 2 | 9 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 0 | 9 | 2 | 7 | 8 | 8 | 1 | 2 | 2 | 2 | 5 | 8 | 8 | 9 |   |
|                          | 0           | 8         | 6 | 8 | 1 | 7 | 8 | 8 | 4 | 3 | 2 | 6 | 7 | 8 | 5 | 3 | 7 | 0 | 8 | 5 | 8 | 8 | 0 | 3 | 7 | 0 | 2 | 9 | 3 | 1 | 8 | 0 |

**Hematopoietic System**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Lymph Node             |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   | + | + |   | + | + |   |   |   |   |   |   |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |   |   |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Thymus                 | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |   |
| Thymoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

**Integumentary System**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Adenocarcinoma           |   |   |   | X |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Adenocarcinoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Adenoma                  |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma             |   |   | X |   | X |   |   |   |   |   |   | X |   | X | X |   | X |   |   |   | X |   |   |   | X |   |   | X |   | X |   |   |   |   |   |
| Fibroadenoma, Multiple   |   |   |   |   |   |   |   | X |   |   |   |   | X |   | X |   |   |   |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   | X |   |
| Skin                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Fibroma                  |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lipoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Sarcoma                  | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

**Musculoskeletal 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:44  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 0PPM          | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                                   |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|                                   |             | 2         | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |  |
|                                   |             | 2         | 3 | 6 | 2 | 3 | 1 | 1 | 8 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 5 | 5 | 6 | 9 | 9 | 9 | 9 | 1 | 1 | 1 | 2 | 3 | 3 | 3 |  |
|                                   |             | 4         | 1 | 7 | 5 | 6 | 4 | 4 | 3 | 7 | 2 | 2 | 5 | 6 | 6 | 6 | 8 | 8 | 4 | 6 | 9 | 8 | 8 | 8 | 0 | 5 | 7 | 3 | 1 | 7 | 7 | 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 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |
|                                   |             | 0         | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |   |  |
|                                   |             | 4         | 5 | 6 | 9 | 0 | 2 | 2 | 9 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 0 | 9 | 2 | 7 | 8 | 8 | 8 | 1 | 2 | 2 | 2 | 2 | 5 |   |  |
|                                   |             | 4         | 8 | 6 | 8 | 1 | 7 | 8 | 8 | 4 | 3 | 2 | 6 | 7 | 8 | 5 | 3 | 7 | 8 | 5 | 8 | 5 | 8 | 3 | 7 | 0 | 2 | 9 | 3 | 1 | 8 | 9 |  |
| Bone, Femur                       |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| <b>Nervous System</b>             |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Brain, Brain Stem                 |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Brain, Cerebellum                 |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Brain, Cerebrum                   |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Granular Cell Tumor Benign        |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>Respiratory System</b>         |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lung                              |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Nose                              |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Trachea                           |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| <b>Special Senses System</b>      |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Eye                               |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Harderian Gland                   |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>Urinary System</b>             |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Kidney                            |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Transitional Epithelial Carcinoma |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Urinary Bladder                   |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| <b>SYSTEMIC LESIONS</b>           |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Multiple Organ                    |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Leukemia Granulocytic             |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:45  
 First Dose M/F: NA / NA  
 Lab: NCTR

|                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CD Rat Female<br>F1 OPPM | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                          |             | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                          |             | 2 | 3 | 6 | 2 | 3 | 1 | 1 | 8 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 5 | 5 | 6 | 9 | 9 | 9 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                          | ANIMAL ID   | 4 | 1 | 7 | 5 | 6 | 4 | 4 | 3 | 7 | 2 | 5 | 6 | 6 | 6 | 8 | 6 | 8 | 4 | 6 | 9 | 8 | 8 | 8 | 0 | 5 | 7 | 3 | 1 | 7 | 3 | 1 | 7 | 7 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                          | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|                          | 4           | 5 | 6 | 9 | 0 | 2 | 2 | 9 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 0 | 9 | 2 | 7 | 8 | 8 | 8 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |   |
|                          | 0           | 8 | 6 | 8 | 1 | 7 | 8 | 8 | 4 | 3 | 2 | 6 | 7 | 8 | 5 | 3 | 7 | 0 | 8 | 5 | 8 | 0 | 3 | 7 | 0 | 0 | 2 | 2 | 9 | 3 | 1 | 8 | 8 | 9 | 0 | 0 | 0 |   |   |

Lymphoma Malignant

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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:45  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 0PPM**

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

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 30 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 53 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 53 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Cholangioma               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |    |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 1  |
| Lipoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |

**Cardiovascular System**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 53 |
| Heart        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |

**Endocrine System**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:45  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 OPPM   | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |    |
|----------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|----|
|                            | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |         |    |
|                            |             | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |         |    |
|                            |             | 8 | 8 | 8 | 9 | 0 | 0 | 0 | 3 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 2 | 2       |    |
|                            |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |    |
|                            |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |    |
|                            |             | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9       |    |
|                            |             | 2 | 5 | 5 | 5 | 1 | 1 | 1 | 4 | 4 | 9 | 1 | 2 | 5 | 4 | 5 | 1 | 2 | 3 | 6 | 7 | 1 | 1       |    |
|                            |             | 7 | 2 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 0 | 0 | 3 | 9 | 6 | 6 | 9 | 0 | 6 | 8 | 0 | 7 | 1       |    |
| Adenoma                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2       |    |
| Adrenal Medulla            |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54      |    |
| Islets, Pancreatic         |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54      |    |
| Adenoma                    |             |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1       |    |
| Parathyroid Gland          |             | M | + | M | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | +       | 46 |
| Pituitary Gland            |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 54 |
| 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              |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 54 |
| C Cell, Adenoma            |             |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   | 2       |    |
| <b>General Body System</b> |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| NONE                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| <b>Genital System</b>      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| Clitoral Gland             |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 51      |    |
| Squamous Cell Papilloma    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |    |
| Ovary                      |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54      |    |
| Oviduct                    |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54      |    |
| Uterus                     |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54      |    |
| Polyp Stromal              |             |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 4       |    |
| Sarcoma Stromal            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |    |
| Vagina                     |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54      |    |
| Granular Cell Tumor Benign |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |    |
| Sarcoma Stromal            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1       |    |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:45  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 0PPM**

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

**Hematopoietic System**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Lymph Node             |   |   |   |   |   |   |   |   | + | + |   |   | + |   | + |   |   |   |   |   |   | + | 11 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 53 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Thymus                 | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 50 |
| Thymoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |    |

**Integumentary System**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Adenocarcinoma           |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 7  |
| Adenocarcinoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Adenoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Fibroadenoma             | X | X |   | X |   |   | X | X |   |   | X |   |   | X |   |   |   |   |   |   |   | X | 19 |
| Fibroadenoma, Multiple   |   |   |   |   |   | X |   |   | X |   |   | X | X |   |   |   | X | X |   |   |   | X | 13 |
| Skin                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Fibroma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lipoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Sarcoma                  |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Squamous Cell Carcinoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**Musculoskeletal 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:45  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 OPPM          | DAY ON TEST | ANIMAL ID |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | *TOTALS |
|-----------------------------------|-------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
|                                   |             | 078       | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 |         |
| Bone, Femur                       |             | 0         | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 54      |
| <b>Nervous System</b>             |             |           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |         |
| Brain, Brain Stem                 |             | 3         | 3   | 3   | 3   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 5   | 54      |
| Brain, Cerebellum                 |             | 8         | 8   | 8   | 9   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 53      |
| Brain, Cerebrum                   |             | 0         | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 54      |
| Granular Cell Tumor Benign        |             | 5         | 5   | 5   | 5   | 6   | 6   | 6   | 6   | 6   | 7   | 7   | 7   | 7   | 7   | 8   | 8   | 8   | 8   | 8   | 9   | 1       |
| <b>Respiratory System</b>         |             | 2         | 5   | 5   | 5   | 1   | 1   | 1   | 4   | 4   | 9   | 1   | 2   | 5   | 4   | 5   | 1   | 2   | 3   | 6   | 7   |         |
| Lung                              |             | 7         | 2   | 9   | 0   | 1   | 2   | 3   | 6   | 7   | 0   | 0   | 3   | 9   | 6   | 6   | 9   | 0   | 6   | 8   | 0   | 54      |
| Nose                              |             | +         | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 54      |
| Trachea                           |             | +         | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 54      |
| <b>Special Senses System</b>      |             |           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |         |
| Eye                               |             | +         | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 32      |
| Harderian Gland                   |             | +         | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 30      |
| <b>Urinary System</b>             |             |           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |         |
| Kidney                            |             | +         | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 54      |
| Transitional Epithelial Carcinoma |             |           |     |     | X   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 1       |
| Urinary Bladder                   |             | +         | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 54      |
| <b>SYSTEMIC LESIONS</b>           |             |           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |         |
| Multiple Organ                    |             | +         | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 54      |
| Leukemia Granulocytic             |             |           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 1       |

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

Experiment Number: 99930-94

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:28:45

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female  
F1 0PPM

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

Lymphoma Malignant

1

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:45  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 5PPM | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                          |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                          |             | 0         | 0 | 0 | 0 | 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         | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                          |             | 1         | 2 | 5 | 6 | 6 | 7 | 9 | 0 | 2 | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 8 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                          |             | 1         | 8 | 1 | 0 | 7 | 8 | 7 | 5 | 0 | 5 | 8 | 1 | 0 | 6 | 0 | 1 | 6 | 8 | 0 | 0 | 6 | 0 | 4 | 6 | 7 | 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 | 0 | 0 | 0 | 0 | 0 | 0 |
|                          |             | 0         | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 6 |
|                          |             | 1         | 3 | 5 | 6 | 7 | 9 | 1 | 2 | 3 | 5 | 4 | 6 | 8 | 0 | 3 | 5 | 6 | 9 | 9 | 0 | 2 | 4 | 9 | 8 | 8 | 8 | 3 | 4 |
|                          |             | 8         | 4 | 3 | 3 | 8 | 4 | 1 | 0 | 7 | 0 | 4 | 8 | 0 | 6 | 4 | 4 | 0 | 5 | 7 | 6 | 1 | 4 | 9 | 6 | 5 | 7 | 2 | 7 |

**Alimentary System**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + |   | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Intestine Small, Jejunum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Adenoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Liver                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Histiocytoma, Metastatic, Skin |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**Cardiovascular System**

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

**Endocrine System**

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:46  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 5PPM    | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                             |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |   |   |   |
|                             |             | 1         | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |   |   |   |   |
|                             |             | 1         | 2 | 5 | 6 | 6 | 7 | 9 | 0 | 2 | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 8 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |   |   |   |   |   |
|                             |             | 1         | 8 | 1 | 0 | 7 | 8 | 7 | 5 | 0 | 5 | 8 | 1 | 0 | 6 | 0 | 1 | 6 | 8 | 0 | 0 | 6 | 0 | 4 | 6 | 7 | 7 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |   |   |   |
|                             |             | 0         | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 6 |   |   |   |   |   |
|                             |             | 1         | 3 | 5 | 6 | 7 | 9 | 1 | 2 | 3 | 5 | 4 | 6 | 8 | 0 | 3 | 5 | 6 | 9 | 9 | 0 | 2 | 4 | 9 | 8 | 8 | 8 | 3 | 3 | 4 | 4 | 0 |   |   |   |
|                             |             | 8         | 4 | 3 | 3 | 8 | 4 | 1 | 0 | 7 | 0 | 4 | 8 | 0 | 6 | 4 | 4 | 0 | 5 | 7 | 6 | 1 | 4 | 9 | 6 | 5 | 5 | 2 | 3 | 7 | 3 | 7 |   |   |   |
| Adrenal Cortex              |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |
| Adenoma                     |             |           | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla             |             | +         | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |
| Pheochromocytoma Benign     |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |
| Islets, Pancreatic          |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Adenoma                     |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                   |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 |   |   |
| Thyroid Gland               |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| <b>General Body System</b>  |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| NONE                        |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Genital System</b>       |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Clitoral Gland              |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Ovary                       |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Oviduct                     |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Uterus                      |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Polyp Stromal               |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Vagina                      |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| <b>Hematopoietic System</b> |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:46  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 5PPM                           | 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 |   |  |  |  |  |  |  |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|
|  | ANIMAL ID   | 1 | 2 | 5 | 6 | 7 | 9 | 0 | 2 | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 8 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |  |  |  |  |  |
| Bone Marrow  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |  |  |  |  |  |
| Lymph Node   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |  |  |  |  |  |
| Pancreatic, Fibrous Histiocytoma, Metastatic, Skin | 0           | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 6 |  |  |  |  |  |  |
| Renal, Fibrous Histiocytoma, Metastatic, Skin      | 1           | 3 | 5 | 6 | 7 | 9 | 1 | 2 | 3 | 5 | 4 | 6 | 8 | 0 | 3 | 5 | 6 | 9 | 9 | 0 | 2 | 4 | 9 | 8 | 8 | 8 | 3 | 3 | 4 | 4 | 0 |  |  |  |  |  |  |
| Lymph Node, Mandibular                             | 8           | 4 | 3 | 3 | 8 | 4 | 1 | 0 | 7 | 0 | 4 | 8 | 0 | 6 | 4 | 4 | 0 | 5 | 7 | 6 | 1 | 4 | 9 | 6 | 5 | 7 | 2 | 3 | 7 | 3 | 7 |  |  |  |  |  |  |
| Lymph Node, Mesenteric                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Spleen   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Thymus   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| <b>Integumentary System</b>                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Mammary Gland                                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Adenocarcinoma                                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Adenocarcinoma, Multiple                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Adenoma  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Fibroadenoma                                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Fibroadenoma, Multiple                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Fibroma  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Skin   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Fibrous Histiocytoma                               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| Keratoacanthoma                                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |
| <b>Musculoskeletal System</b>                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:46  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 5PPM**

|                     | 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 |
|                     | 1           | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                     | 1           | 2 | 5 | 6 | 6 | 7 | 9 | 0 | 2 | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 8 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                     | 1           | 8 | 1 | 0 | 7 | 8 | 7 | 5 | 0 | 5 | 8 | 1 | 0 | 6 | 0 | 1 | 6 | 8 | 0 | 0 | 6 | 0 | 4 | 6 | 7 | 7 | 7 | 8 | 9 |
| ANIMAL ID           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                     | 0           | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
|                     | 1           | 3 | 5 | 6 | 7 | 9 | 1 | 2 | 3 | 5 | 4 | 6 | 8 | 0 | 3 | 5 | 6 | 9 | 9 | 0 | 2 | 4 | 4 | 9 | 8 | 8 | 8 | 3 | 3 |
|                     | 8           | 4 | 3 | 3 | 8 | 4 | 1 | 0 | 7 | 0 | 4 | 8 | 0 | 6 | 4 | 4 | 0 | 5 | 7 | 6 | 1 | 4 | 4 | 9 | 6 | 5 | 7 | 2 | 3 |
| Multiple Organ      | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma |             |   |   | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:46  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female**  
**F1 5PPM**

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

**Alimentary System**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 32 |
| Intestine Small, Duodenum              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |
| Liver                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrous Histiocytoma, Metastatic, Skin |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | 1  |
| Mesentery                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Sarcoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

**Cardiovascular System**

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

**Endocrine System**

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:47  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 5PPM**

|                             | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | *TOTALS               |
|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                             | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>4<br>0      | 0<br>7<br>4<br>2      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>5      | 0<br>7<br>4<br>5      | 0<br>7<br>5<br>2      | 0<br>7<br>5<br>2      | 0<br>7<br>5<br>2      |                       |
| ANIMAL ID                   | 0<br>0<br>6<br>0<br>8 | 0<br>0<br>6<br>0<br>9 | 0<br>0<br>6<br>0<br>0 | 0<br>0<br>6<br>0<br>1 | 0<br>0<br>6<br>5<br>6 | 0<br>0<br>6<br>4<br>2 | 0<br>0<br>6<br>6<br>3 | 0<br>0<br>6<br>6<br>4 | 0<br>0<br>6<br>6<br>6 | 0<br>0<br>6<br>6<br>4 | 0<br>0<br>7<br>0<br>1 | 0<br>0<br>7<br>0<br>2 | 0<br>0<br>7<br>7<br>2 | 0<br>0<br>7<br>7<br>4 | 0<br>0<br>7<br>7<br>5 | 0<br>0<br>7<br>7<br>5 | 0<br>0<br>9<br>0<br>8 | 0<br>0<br>9<br>0<br>7 | 0<br>0<br>9<br>0<br>9 |
| Adrenal Cortex              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Adenoma                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Adrenal Medulla             | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |
| Pheochromocytoma Benign     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Islets, Pancreatic          | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Adenoma                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       | 1                     |
| Carcinoma                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       | 1                     |
| Parathyroid Gland           | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 46                    |
| Pituitary Gland             | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Pars Distalis, Adenoma      | X                     | X                     | X                     |                       | X                     | X                     |                       | X                     | X                     | X                     | X                     | X                     | X                     |                       | X                     | X                     | X                     | X                     | 40                    |
| Thyroid Gland               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| <b>General Body System</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| NONE                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| <b>Genital System</b>       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Clitoral Gland              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 49                    |
| Ovary                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Oviduct                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Uterus                      | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Polyp Stromal               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Vagina                      | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| <b>Hematopoietic System</b> |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:47  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female**  
**F1 5PPM**

|  | 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 | 7       |
|  | 3           | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5       |
|  | 9           | 9 | 9 | 0 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 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       |
|  | 6           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9       |
|  | 0           | 0 | 1 | 0 | 5 | 4 | 6 | 6 | 4 | 0 | 0 | 2 | 2 | 4 | 5 | 5 | 0 | 0 | 0       |
|  | 8           | 9 | 0 | 6 | 2 | 2 | 3 | 4 | 0 | 1 | 2 | 1 | 2 | 4 | 7 | 8 | 7 | 8 | 9       |
| Bone Marrow  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| Lymph Node   |             |   |   | + | + |   |   |   |   | + |   |   |   |   | + | M |   |   | +       |
| Pancreatic, Fibrous Histiocytoma, Metastatic, Skin |             |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |         |
| Renal, Fibrous Histiocytoma, Metastatic, Skin      |             |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |         |
| Lymph Node, Mandibular                             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| Lymph Node, Mesenteric                             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| Spleen   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| Thymus   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| <b>Integumentary System</b>                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Mammary Gland                                      | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| Adenocarcinoma                                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Adenocarcinoma, Multiple                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Adenoma  |             |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |         |
| Fibroadenoma                                       |             |   |   |   |   | X | X |   | X |   |   |   |   |   | X |   |   |   |         |
| Fibroadenoma, Multiple                             |             |   | X |   |   |   |   |   |   | X | X |   |   | X |   | X |   |   | X       |
| Fibroma  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Skin   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       |
| Fibrous Histiocytoma                               |             |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |         |
| Keratoacanthoma                                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:47  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 5PPM     | 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 |
|                              |             | 3              | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
|                              |             | 9              | 9 | 9 | 0 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 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 |
|                              |             | 6              | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 |
|                              |             | 0              | 0 | 1 | 0 | 5 | 4 | 6 | 6 | 4 | 0 | 0 | 2 | 2 | 4 | 5 | 5 | 0 | 0 |
|                              |             | 8              | 9 | 0 | 6 | 2 | 2 | 3 | 4 | 0 | 1 | 2 | 1 | 2 | 4 | 7 | 8 | 7 | 8 |
|                              |             | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone, Femur                  |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle              |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Nervous System</b>        |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Brain, Brain Stem            |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebellum            |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Astrocytoma Malignant        |             |                |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Brain, Cerebrum              |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Respiratory System</b>    |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung                         |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose                         |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea                      |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Special Senses System</b> |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eye                          |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland              |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland               |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Urinary System</b>        |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Kidney                       |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary Bladder              |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>SYSTEMIC LESIONS</b>      |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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 BLANK ..Not examined microscopically



**Experiment Number:** 99930-94  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** Endocrine disruptor (Genistein)  
**CAS Number:** 446-72-0

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 17:28:47  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**CD Rat Female**  
**F1 5PPM**

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

**\*TOTALS**

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:47  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 100PPM | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                            |             | 2         | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |
|                            |             | 6         | 0 | 6 | 8 | 2 | 3 | 4 | 6 | 0 | 0 | 2 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 6 | 9 | 1 | 2 | 3 | 3 | 3 | 3 |   |
|                            |             | 8         | 1 | 5 | 6 | 0 | 4 | 5 | 5 | 3 | 4 | 6 | 5 | 8 | 8 | 3 | 4 | 7 | 7 | 8 | 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|                            |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                            |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                            |             | 0         | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 4 |   |
|                            |             | 5         | 9 | 1 | 2 | 3 | 3 | 4 | 7 | 1 | 2 | 4 | 7 | 7 | 8 | 9 | 1 | 0 | 0 | 0 | 3 | 7 | 1 | 2 | 4 | 5 | 3 | 8 |   |
|                            |             | 1         | 1 | 8 | 4 | 0 | 6 | 9 | 5 | 8 | 1 | 1 | 3 | 8 | 1 | 4 | 1 | 4 | 5 | 3 | 2 | 0 | 8 | 4 | 5 | 1 | 9 | 9 |   |

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + |
| Intestine Small, Jejunum  | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**Cardiovascular System**

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

**Endocrine System**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma         |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:48  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 100PPM | 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 | 0 |
|----------------------------|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            | ANIMAL ID                      | 2 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                            |                                | 6 | 0 | 6 | 8 | 2 | 3 | 4 | 6 | 0 | 0 | 2 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 9 | 1 | 2 | 3 | 3 | 3 | 3 | 3 |
|                            |                                | 8 | 1 | 5 | 6 | 0 | 4 | 5 | 5 | 3 | 4 | 6 | 5 | 8 | 8 | 3 | 4 | 7 | 7 | 8 | 8 | 1 | 1 | 1 | 1 | 1 | 1 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                            |                                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 5 | 5 |
|                            |                                | 5 | 9 | 1 | 2 | 3 | 3 | 4 | 7 | 1 | 2 | 4 | 7 | 8 | 9 | 1 | 0 | 0 | 0 | 3 | 7 | 1 | 2 | 4 | 5 | 3 | 8 | 8 | 2 | 3 | 8 |
|                            |                                | 1 | 1 | 8 | 4 | 0 | 6 | 9 | 5 | 8 | 1 | 1 | 3 | 8 | 1 | 4 | 5 | 3 | 2 | 0 | 8 | 4 | 5 | 1 | 9 | 9 | 2 | 8 | 1 | 1 |   |
|                            | Pheochromocytoma Complex       |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            | Islets, Pancreatic             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                            | Adenoma                        |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            | Parathyroid Gland              | + | + | + | + | + | M | + | 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 |   |
|                            | Pars Distalis, Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
|                            | Thyroid Gland                  | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                            | C Cell, Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
|                            | <b>General Body System</b>     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            | NONE                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            | <b>Genital System</b>          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            | Clitoral Gland                 | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                            | Carcinoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            | Squamous Cell Papilloma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            | Ovary                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                            | Granulosa Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            | Sarcoma Stromal                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            | Oviduct                        | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                            | Uterus                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                            | Adenocarcinoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                            | Polyp Stromal                  |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:48  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 100PPM    | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-------------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                               |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|                               |             | 2         | 4 | 4 | 4 | 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 |  |
|                               |             | 6         | 0 | 6 | 8 | 2 | 3 | 4 | 6 | 0 | 0 | 2 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 6 | 9 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |  |
|                               |             | 8         | 1 | 5 | 6 | 0 | 4 | 5 | 5 | 3 | 4 | 6 | 5 | 8 | 8 | 3 | 4 | 7 | 7 | 8 | 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |
|                               |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|                               |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|                               |             | 0         | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 5 |  |
|                               |             | 5         | 9 | 1 | 2 | 3 | 3 | 4 | 7 | 1 | 2 | 4 | 7 | 7 | 8 | 9 | 1 | 0 | 0 | 0 | 3 | 7 | 1 | 2 | 4 | 5 | 3 | 8 | 8 |   |  |
|                               |             | 1         | 1 | 8 | 4 | 0 | 6 | 9 | 5 | 8 | 1 | 1 | 3 | 8 | 1 | 4 | 1 | 4 | 5 | 3 | 2 | 0 | 8 | 4 | 5 | 1 | 9 | 9 | 2 | 8 |  |
| Sarcoma Stromal               |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Vagina                        |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Sarcoma Stromal               |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>Hematopoietic System</b>   |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Bone Marrow                   |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymph Node                    |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node, Mandibular        |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymph Node, Mesenteric        |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spleen                        |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Thymus                        |             | +         | + | + | + | M | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| <b>Integumentary System</b>   |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Mammary Gland                 |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Adenocarcinoma                |             |           |   |   |   | X |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Adenocarcinoma, Multiple      |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Fibroadenoma                  |             |           |   |   | X |   |   | X | X |   |   |   |   |   | X | X |   | X | X | X |   | X |   | X |   | X | X | X | X | X |  |
| Fibroadenoma, Multiple        |             |           |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   | X |   | X |   |   |   |   |   |  |
| Skin                          |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lipoma                        |             |           |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>Musculoskeletal System</b> |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Bone, Femur                   |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Skeletal Muscle               |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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 M ..Missing tissue  
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 BLANK ..Not examined microscopically



Experiment Number: 99930-94

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:28:48

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

| CD Rat Female<br>F1 100PPM | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                            |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                            | 2           | 4         | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |   |
|                            | 6           | 0         | 6 | 8 | 2 | 3 | 4 | 6 | 0 | 0 | 2 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 6 | 9 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |   |   |
|                            | 8           | 1         | 5 | 6 | 0 | 4 | 5 | 5 | 3 | 4 | 6 | 5 | 8 | 8 | 3 | 4 | 7 | 7 | 8 | 8 | 1 | 1 | 1 | 1 | 1 | 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 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|                            | 0           | 0         | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 5 |   |   |
|                            | 5           | 9         | 1 | 2 | 3 | 3 | 4 | 7 | 1 | 2 | 4 | 7 | 7 | 8 | 9 | 1 | 0 | 0 | 0 | 3 | 7 | 1 | 2 | 4 | 5 | 3 | 8 | 8 | 2 | 3 | 8 |
|                            | 1           | 1         | 8 | 4 | 0 | 6 | 9 | 5 | 8 | 1 | 1 | 3 | 8 | 1 | 4 | 1 | 4 | 5 | 3 | 2 | 0 | 8 | 4 | 5 | 1 | 9 | 9 | 2 | 8 | 1 | 1 |
| Urinary Bladder            |             | +         | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| <b>SYSTEMIC LESIONS</b>    |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:48  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 100PPM**

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

**\*TOTALS**

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 30 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

**Cardiovascular System**

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

**Endocrine System**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:48  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 100PPM**

| 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       |    |
|                                | 3         | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5       |    |
|                                | 9         | 9 | 3 | 3 | 4 | 4 | 4 | 5 | 7 | 7 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0       |    |
|                                | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |    |
|                                | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |    |
|                                | 5         | 5 | 6 | 6 | 6 | 7 | 7 | 6 | 8 | 9 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9       |    |
|                                | 4         | 4 | 4 | 6 | 6 | 0 | 2 | 6 | 2 | 1 | 1 | 8 | 0 | 0 | 3 | 3 | 6 | 6 | 1       |    |
|                                | 4         | 5 | 3 | 6 | 5 | 3 | 0 | 2 | 1 | 4 | 2 | 2 | 6 | 9 | 0 | 1 | 7 | 2 | 3       |    |
| Pheochromocytoma Complex       |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Islets, Pancreatic             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 50 |
| Adenoma                        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 2  |
| Parathyroid Gland              | +         | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | +       | 46 |
| Pituitary Gland                | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 50 |
| Pars Distalis, Adenoma         | X         | X | X |   | X | X | X | X | X |   |   | X |   |   |   | X | X | X | X       | 33 |
| Pars Distalis, Carcinoma       |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Thyroid Gland                  | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 49 |
| C Cell, Adenoma                |           |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 2  |
| <b>General Body System</b>     |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| NONE                           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| <b>Genital System</b>          |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |
| Clitoral Gland                 | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 49 |
| Carcinoma                      |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Squamous Cell Papilloma        |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Ovary                          | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 50 |
| Granulosa Cell Tumor Malignant |           |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |         | 2  |
| Sarcoma Stromal                |           |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Oviduct                        | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 49 |
| Uterus                         | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +       | 50 |
| Adenocarcinoma                 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |
| Polyp Stromal                  |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 3  |

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



Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:49  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 100PPM**

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

**\*TOTALS**

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Sarcoma Stromal               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Vagina                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Sarcoma Stromal               |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| <b>Hematopoietic System</b>   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Bone Marrow                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node                    |   | + |   |   |   | + |   |   |   | + | + |   | + | + |   | + |   |   |   | 12 |
| Lymph Node, Mandibular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node, Mesenteric        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Thymus                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | M | M | 43 |
| <b>Integumentary System</b>   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Mammary Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma                |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6  |
| Adenocarcinoma, Multiple      |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   | 2  |
| Fibroadenoma                  |   |   |   | X |   |   | X |   |   |   |   | X |   |   | X |   | X |   |   | 20 |
| Fibroadenoma, Multiple        | X | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X | 8  |
| Skin                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lipoma                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| <b>Musculoskeletal System</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Bone, Femur                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   | 1  |

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

Experiment Number: 99930-94

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:28:49

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

| CD Rat Female<br>F1 100PPM    | 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 |   |   |    |   |
|                               |             | 3              | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |   |   |    |   |
|                               |             | 9              | 9 | 3 | 3 | 4 | 4 | 4 | 5 | 7 | 7 | 8 | 9 | 9 | 9 | 9 | 9 | 0 | 0 |   |   |    |   |
|                               |             | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |    |   |
|                               |             | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |    |   |
|                               |             | 5              | 5 | 6 | 6 | 6 | 7 | 7 | 6 | 8 | 9 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 9 |   |   |    |   |
|                               |             | 4              | 4 | 4 | 6 | 6 | 0 | 2 | 6 | 2 | 1 | 1 | 8 | 0 | 0 | 3 | 3 | 6 | 1 |   |   |    |   |
|                               |             | 4              | 5 | 3 | 6 | 5 | 3 | 0 | 2 | 1 | 4 | 2 | 2 | 0 | 9 | 0 | 1 | 7 | 2 | 3 |   |    |   |
|                               |             | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
| Hemangiosarcoma               |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |   |
| Sarcoma                       |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X  | 1 |
| <b>Nervous System</b>         |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
| Brain, Brain Stem             |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Brain, Cerebellum             |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Brain, Cerebrum               |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Granular Cell Tumor Malignant |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |   |
| Meningioma Malignant          |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |   |
| <b>Respiratory System</b>     |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
| Lung                          |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Alveolar/Bronchiolar Adenoma  |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X  | 1 |
| Nose                          |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Squamous Cell Carcinoma       |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |   |
| Trachea                       |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| <b>Special Senses System</b>  |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
| Eye                           |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 31 |   |
| Harderian Gland               |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 30 |   |
| Lacrimal Gland                |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |   |
| <b>Urinary System</b>         |             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
| Kidney                        |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Urinary Bladder               |             | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |   |

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

Experiment Number: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:28:49

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female  
F1 100PPM

| 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 |           |
|                         | 3              | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |           |
|                         | 9              | 9 | 3 | 3 | 4 | 4 | 4 | 5 | 7 | 7 | 8 | 9 | 9 | 9 | 9 | 9 | 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 |           |
|                         | 5              | 5 | 6 | 6 | 6 | 7 | 7 | 6 | 8 | 9 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 9 |           |
|                         | 4              | 4 | 4 | 6 | 6 | 0 | 2 | 6 | 2 | 1 | 1 | 8 | 0 | 0 | 3 | 3 | 6 | 1 |           |
|                         | 4              | 5 | 3 | 6 | 5 | 3 | 0 | 2 | 1 | 4 | 2 | 2 | 6 | 9 | 0 | 1 | 7 | 3 |           |
|                         | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Urinary Bladder         | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |
| <b>SYSTEMIC LESIONS</b> |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>49</b> |
| Multiple Organ          | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |
|                         |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50</b> |

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

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





Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:49  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 500PPM    | DAY ON TEST | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                               |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lymph Node, Mandibular        |             | 3         | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |
| Lymph Node, Mesenteric        |             | 3         | 4 | 5 | 0 | 1 | 5 | 6 | 6 | 9 | 0 | 1 | 1 | 2 | 3 | 3 | 4 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
| Spleen                        |             | 0         | 5 | 9 | 8 | 2 | 0 | 5 | 8 | 8 | 5 | 8 | 2 | 0 | 2 | 4 | 0 | 0 | 8 | 5 | 8 | 9 | 8 | 8 | 4 | 6 | 6 | 6 | 6 |   |
| Thymus                        |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                               |             | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|                               |             | 5         | 6 | 6 | 9 | 2 | 5 | 7 | 8 | 1 | 1 | 3 | 3 | 3 | 6 | 7 | 8 | 1 | 1 | 2 | 3 | 5 | 5 | 6 | 6 | 7 | 3 | 0 |   |   |
|                               |             | 7         | 0 | 2 | 3 | 5 | 2 | 4 | 7 | 0 | 9 | 3 | 6 | 8 | 1 | 0 | 4 | 5 | 6 | 4 | 7 | 2 | 0 | 4 | 5 | 6 | 6 | 9 |   |   |
|                               |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                               |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                               |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                               |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |
| <b>Integumentary System</b>   |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mammary Gland                 |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenocarcinoma                |             |           |   |   |   |   | X |   |   |   |   | X | X | X |   | X |   |   |   |   |   | X |   | X |   |   |   |   |   |   |
| Adenocarcinoma, Multiple      |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Adenoma                       |             |           |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |
| Fibroadenoma                  |             |           |   |   |   |   | X | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma, Multiple        |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin                          |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| <b>Musculoskeletal System</b> |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone, Femur                   |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| <b>Nervous System</b>         |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Brain, Brain Stem             |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Brain, Cerebellum             |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Granular Cell Tumor Benign    |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Brain, Cerebrum               |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Granular Cell Tumor Benign    |             |           |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Granular Cell Tumor Nos       |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:50  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 500PPM**

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

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 24 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

**Cardiovascular System**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Heart        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

**Endocrine System**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:50  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 500PPM**

|                              | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | *TOTALS               |
|------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                              | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>5      | 0<br>7<br>4<br>8      | 0<br>7<br>4<br>8      | 0<br>7<br>4<br>9      | 0<br>7<br>4<br>9      | 0<br>7<br>4<br>9      | 0<br>7<br>5<br>0      | 0<br>7<br>5<br>1      | 0<br>7<br>6<br>2      | 0<br>7<br>6<br>3      |                       |
| ANIMAL ID                    | 0<br>0<br>5<br>2<br>9 | 0<br>0<br>5<br>3<br>0 | 0<br>0<br>5<br>4<br>6 | 0<br>0<br>5<br>4<br>8 | 0<br>0<br>5<br>4<br>9 | 0<br>0<br>6<br>4<br>1 | 0<br>0<br>6<br>4<br>7 | 0<br>0<br>6<br>8<br>9 | 0<br>0<br>7<br>4<br>5 | 0<br>0<br>8<br>1<br>0 | 0<br>0<br>8<br>1<br>1 | 0<br>0<br>8<br>0<br>2 | 0<br>0<br>8<br>3<br>3 | 0<br>0<br>8<br>3<br>3 | 0<br>0<br>8<br>4<br>1 | 0<br>0<br>8<br>6<br>6 | 0<br>0<br>8<br>6<br>6 | 0<br>0<br>8<br>9<br>1 | 0<br>0<br>9<br>1<br>2 |
| Islets, Pancreatic Carcinoma | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |
| Parathyroid Gland            | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 1                     |
| Pituitary Gland              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 44                    |
| Pars Distalis, Adenoma       | X                     | X                     | X                     |                       | X                     | X                     | X                     | X                     | X                     | X                     | X                     | X                     | X                     | X                     | X                     | X                     | X                     | X                     | 46                    |
| Thyroid Gland                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 49                    |
| C Cell, Adenoma              |                       |                       |                       | X                     |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |
| <b>General Body System</b>   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| NONE                         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| <b>Genital System</b>        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Clitoral Gland               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 49                    |
| Ovary                        | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 49                    |
| Granulosa Cell Tumor Benign  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Oviduct                      | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 49                    |
| Uterus                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 49                    |
| Adenoma                      |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Polyp Stromal                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Vagina                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |
| <b>Hematopoietic System</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Bone Marrow                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |
| Lymph Node                   |                       |                       |                       |                       |                       | +                     |                       | +                     |                       |                       |                       |                       |                       |                       |                       |                       | +                     |                       | 5                     |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:50  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female**  
**F1 500PPM**

|                               | 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 |         |
|                               | 3           | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |         |
|                               | 8           | 8 | 8 | 8 | 8 | 3 | 3 | 4 | 5 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 0 | 1 |         |
|                               | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                               | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                               | 5           | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |         |
|                               | 2           | 3 | 4 | 4 | 4 | 4 | 6 | 8 | 4 | 1 | 1 | 0 | 2 | 3 | 3 | 4 | 6 | 1 |         |
|                               | 9           | 0 | 6 | 8 | 9 | 1 | 7 | 9 | 5 | 0 | 1 | 5 | 9 | 2 | 3 | 1 | 6 | 2 |         |
| Lymph Node, Mandibular        | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Lymph Node, Mesenteric        | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48      |
| Spleen                        | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Thymus                        | M           | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | M | + | 44      |
| <b>Integumentary System</b>   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Mammary Gland                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Adenocarcinoma                |             |   |   | X |   |   | X |   | X |   |   |   |   |   |   |   |   |   | 10      |
| Adenocarcinoma, Multiple      |             |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   | 3       |
| Adenoma                       |             |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   | 5       |
| Fibroadenoma                  |             |   |   |   |   |   |   | X |   |   | X | X |   |   |   |   |   |   | 8       |
| Fibroadenoma, Multiple        | X           |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   | 4       |
| Skin                          | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| <b>Musculoskeletal System</b> |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Bone, Femur                   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| <b>Nervous System</b>         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Brain, Brain Stem             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Brain, Cerebellum             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Granular Cell Tumor Benign    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Brain, Cerebrum               | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Granular Cell Tumor Benign    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Granular Cell Tumor Nos       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:50  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 500PPM**

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

**Respiratory System**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Squamous Cell Carcinoma, Metastatic, Nose |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Nose                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Squamous Cell Carcinoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Trachea                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

**Special Senses System**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 26 |
| Harderian Gland                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 25 |
| Squamous Cell Carcinoma, Metastatic, Nose |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lacrimal Gland                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**Urinary System**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Nephroblastoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

**SYSTEMIC LESIONS**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Leukemia Mononuclear |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

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



Experiment Number: 99930-94  
Test Type: SPECIAL STUDY  
Route: DOSED FEED  
Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
Test Compound: Endocrine disruptor (Genistein)  
CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
Time Report Requested: 17:28:51  
First Dose M/F: NA / NA  
Lab: NCTR

| CD Rat Female<br>F1 5PPM/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 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 3         | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Carcinoma                      |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Adrenal Medulla                |             | +         | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign        |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Islets, Pancreatic             |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                        |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Parathyroid Gland              |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Pituitary Gland                |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma         |             |           |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |   | X | X |   |   | X |   | X |   | X | X |   |
| Thyroid Gland                  |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C Cell, Adenoma                |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>General Body System</b>     |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| NONE                           |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Genital System</b>          |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Clitoral Gland                 |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Squamous Cell Papilloma        |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ovary                          |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granulosa Cell Tumor Benign    |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Granulosa Cell Tumor Malignant |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Oviduct                        |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus                         |             | +         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Polyp Stromal                  |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Sarcoma Stromal                |             |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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: 99930-94

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 17:28:51

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
| CD Rat Female                 | F1 5PPM/CTL | 3           | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |
|                               |             | 2           | 3 | 5 | 4 | 8 | 2 | 2 | 2 | 3 | 5 | 6 | 6 | 7 | 7 | 8 | 9 | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|                               |             | 5           | 9 | 1 | 3 | 1 | 0 | 5 | 7 | 4 | 8 | 7 | 9 | 3 | 3 | 8 | 2 | 9 | 4 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |   |   |
|                               |             | 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           | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |   |   |
|                               |             | 5           | 0 | 1 | 4 | 9 | 3 | 5 | 5 | 6 | 0 | 2 | 3 | 3 | 4 | 6 | 7 | 0 | 3 | 9 | 9 | 9 | 9 | 4 | 3 | 5 | 5 | 5 | 1 | 1 | 2 | 1 | 1 | 5 | 1 |   |   |
|                               |             | 6           | 2 | 4 | 8 | 5 | 5 | 3 | 5 | 7 | 9 | 1 | 1 | 9 | 4 | 2 | 2 | 4 | 3 | 6 | 7 | 8 | 0 | 6 | 5 | 6 | 7 | 8 | 3 | 4 | 5 | 1 | 1 | 1 |   |   |   |
| Vagina                        |             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| <b>Hematopoietic System</b>   |             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone Marrow                   |             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymph Node                    |             |             |   |   | + |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | M | + |   |
| Lymph Node, Mandibular        |             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric        |             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                        |             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus                        |             | +           | + | + | + | + | + | + | + | M | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Integumentary System</b>   |             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mammary Gland                 |             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenocarcinoma                |             |             |   |   |   | X |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma                  |             |             |   |   | X |   | X | X | X | X |   | X |   |   |   | X |   |   |   |   |   |   |   | X |   | X | X |   | X | X | X | X | X | X | X | X |   |
| Fibroadenoma, Multiple        |             |             |   |   |   | X |   |   |   | X |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Skin                          |             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Fibroma                       |             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Keratoacanthoma               |             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Musculoskeletal System</b> |             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone, Femur                   |             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Bone, Mandible                |             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Squamous Cell Carcinoma       |             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Skeletal Muscle               |             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

\* ..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: 99930-94  
Test Type: SPECIAL STUDY  
Route: DOSED FEED  
Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
Test Compound: Endocrine disruptor (Genistein)  
CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
Time Report Requested: 17:28:51  
First Dose M/F: NA / NA  
Lab: NCTR

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

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Granulosa Cell Tumor Malignant, Metastatic, Ovary | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Nervous System</b>                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Brain, Brain Stem                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebellum                                 | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Respiratory System</b>                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Special Senses System</b>                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ear   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eye   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Urinary System</b>                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Kidney  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary Bladder                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* ..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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:51  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 5PPM/CTL**

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

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 33 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mesentery                 |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 49 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Tongue                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**Cardiovascular System**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Schwannoma Nos |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 1  |

**Endocrine System**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:52  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 5PPM/CTL   | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
|                                | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |         |
|                                |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |         |
|                                |             | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 9 | 9 | 9 | 0 | 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 |         |
|                                |             | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 |         |
|                                |             | 5 | 5 | 5 | 7 | 7 | 9 | 0 | 0 | 5 | 5 | 5 | 6 | 1 | 1 | 3 | 7 | 7 | 7 |         |
|                                |             | 3 | 4 | 0 | 1 | 2 | 1 | 8 | 9 | 3 | 4 | 5 | 1 | 5 | 6 | 7 | 2 | 3 | 4 |         |
| Carcinoma                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Adrenal Medulla                |             | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 48      |
| Pheochromocytoma Benign        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 2       |
| Islets, Pancreatic             |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Adenoma                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 2       |
| Parathyroid Gland              |             | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47      |
| Pituitary Gland                |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Pars Distalis, Adenoma         |             | X |   |   | X |   |   | X | X | X | X | X | X |   |   | X | X |   | X | 32      |
| Thyroid Gland                  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| C Cell, Adenoma                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | 1       |
| <b>General Body System</b>     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| NONE                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| <b>Genital System</b>          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Clitoral Gland                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Squamous Cell Papilloma        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1       |
| Ovary                          |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Granulosa Cell Tumor Benign    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Granulosa Cell Tumor Malignant |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Oviduct                        |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Uterus                         |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Polyp Stromal                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Sarcoma Stromal                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:52  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 5PPM/CTL**

| DAY ON TEST                   | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |    |
|-------------------------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
|                               | 7              | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |    |
|                               | 4              | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |   |    |
|                               | 2              | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 5 | 9 | 9 | 9 | 0 | 2 | 2 |   |    |
| ANIMAL ID                     | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |    |
|                               | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |    |
|                               | 6              | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 |   |    |
|                               | 5              | 5 | 5 | 7 | 7 | 9 | 0 | 0 | 5 | 5 | 5 | 6 | 1 | 1 | 3 | 7 | 7 | 1 |   |    |
|                               | 3              | 4 | 0 | 1 | 2 | 1 | 8 | 9 | 3 | 4 | 5 | 1 | 5 | 6 | 7 | 2 | 3 | 5 |   |    |
|                               | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Vagina                        | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 49 |
| <b>Hematopoietic System</b>   |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Bone Marrow                   | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node                    |                |   |   | + |   | + | + |   |   |   |   |   |   | + | + |   | + |   |   | 9  |
| Lymph Node, Mandibular        | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node, Mesenteric        | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen                        | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Thymus                        | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| <b>Integumentary System</b>   |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Mammary Gland                 | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma                |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Fibroadenoma                  | X              | X | X | X |   | X |   |   | X | X |   | X |   |   |   |   |   |   |   | 21 |
| Fibroadenoma, Multiple        |                |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X | X | X |   | 9  |
| Skin                          | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibroma                       |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Keratoacanthoma               |                |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| <b>Musculoskeletal System</b> |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Bone, Femur                   | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Bone, Mandible                |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma       |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Skeletal Muscle               |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:52  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 5PPM/CTL                      | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
|   | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |         |
|   |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |         |
|   |             | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 9 | 9 | 9 | 0 | 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 |         |
|   |             | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 |         |
|   |             | 5 | 5 | 5 | 7 | 7 | 9 | 0 | 0 | 5 | 5 | 5 | 6 | 1 | 1 | 3 | 7 | 7 |         |
|   |             | 3 | 4 | 0 | 1 | 2 | 1 | 8 | 9 | 3 | 4 | 5 | 1 | 5 | 6 | 7 | 2 | 3 | 1       |
| Granulosa Cell Tumor Malignant, Metastatic, Ovary |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| <b>Nervous System</b>                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Brain, Brain Stem                                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Brain, Cerebellum                                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Brain, Cerebrum                                   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| <b>Respiratory System</b>                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Lung  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Alveolar/Bronchiolar Adenoma                      |             |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1       |
| Nose  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Trachea   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| <b>Special Senses System</b>                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Ear   |             |   |   | + |   |   |   |   |   |   |   | + |   |   |   |   |   |   | 2       |
| Squamous Cell Papilloma                           |             |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| Eye   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 33      |
| Harderian Gland                                   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 33      |
| Lacrimal Gland                                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |
| <b>Urinary System</b>                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Kidney  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Urinary Bladder                                   |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 49      |

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

Experiment Number: 99930-94

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:28:52

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female  
F1 5PPM/CTL

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

SYSTEMIC LESIONS

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

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

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





Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:53  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat Female  
 F1 100PPM/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 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|             | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|             | 1 | 2 | 3 | 7 | 1 | 3 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 0 | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |   |
|             | 0 | 3 | 8 | 7 | 9 | 2 | 4 | 8 | 0 | 0 | 3 | 3 | 8 | 3 | 9 | 0 | 2 | 3 | 3 | 3 | 7 | 8 | 8 | 9 | 0 | 3 | 3 | 4 | 3 | 3 | 4 | 5 | 5 |   |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|             | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |   |   |
|             | 9 | 9 | 3 | 9 | 3 | 7 | 9 | 0 | 2 | 3 | 5 | 5 | 8 | 8 | 0 | 2 | 5 | 0 | 9 | 9 | 5 | 5 | 3 | 3 | 5 | 1 | 4 | 4 | 7 | 0 | 0 |   |   |   |
|             | 4 | 7 | 7 | 2 | 4 | 4 | 9 | 7 | 7 | 0 | 3 | 7 | 2 | 9 | 5 | 5 | 0 | 0 | 1 | 2 | 7 | 8 | 4 | 5 | 1 | 6 | 4 | 5 | 0 | 4 | 5 |   |   |   |

**Hematopoietic System**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymph Node             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus                 | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + |   |

**Integumentary System**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma         |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Fibroadenoma           |   |   | X |   | X | X |   |   |   |   |   | X |   |   |   |   | X | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma, Multiple |   |   |   | X |   |   | X | X | X |   |   |   |   | X |   |   | X | X |   |   |   | X |   |   | X |   | X |   |   |   |   |   |   |   |
| Skin                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroma                | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lipoma                 |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**Musculoskeletal System**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone, Femur     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Skeletal Muscle |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lipoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**Nervous 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:53  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 100PPM/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 |   |   |   |   |  |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                                | ANIMAL ID   | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |   |   |  |
|                                |             | 1 | 2 | 3 | 7 | 1 | 3 | 5 | 5 | 7 | 7 | 8 | 8 | 9 | 0 | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |   |   |  |
|                                |             | 0 | 3 | 8 | 7 | 9 | 2 | 4 | 8 | 0 | 0 | 3 | 3 | 8 | 3 | 9 | 0 | 0 | 2 | 3 | 3 | 7 | 7 | 8 | 8 | 9 | 0 | 3 | 3 | 4 | 4 | 5 | 5 |   |  |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |
|                                |             | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |   |  |
|                                |             | 9 | 9 | 3 | 9 | 3 | 7 | 9 | 0 | 2 | 3 | 5 | 5 | 8 | 8 | 0 | 2 | 5 | 0 | 9 | 9 | 5 | 5 | 3 | 3 | 5 | 1 | 4 | 4 | 7 | 0 | 0 | 0 |   |  |
|                                |             | 4 | 7 | 7 | 2 | 4 | 4 | 9 | 7 | 7 | 0 | 3 | 7 | 2 | 9 | 5 | 5 | 0 | 1 | 2 | 7 | 8 | 4 | 5 | 1 | 6 | 4 | 5 | 0 | 4 | 5 | 5 | 5 |   |  |
| Brain, Brain Stem              |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Brain, Cerebellum              |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Brain, Cerebrum                |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Astrocytoma Malignant          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>Respiratory System</b>      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lung                           |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Nose                           |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Trachea                        |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| <b>Special Senses System</b>   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Eye                            |             |   |   |   | + |   |   |   |   |   |   |   |   | + |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Harderian Gland                |             |   |   |   |   |   |   |   |   |   |   |   |   | + |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| <b>Urinary System</b>          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Kidney                         |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Renal Tubule, Adenoma          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Urinary Bladder                |             | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| <b>SYSTEMIC LESIONS</b>        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:53  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 100PPM/CTL**

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

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |
| Intestine Small           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach      | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

**Cardiovascular System**

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

**Endocrine System**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |

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

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:53  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 100PPM/CTL**

| DAY ON TEST                | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | *TOTALS |
|----------------------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|
|                            | 0745      | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 | 0745 |         |
| Adrenal Medulla            | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50      |
| Islets, Pancreatic         | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50      |
| Adenoma                    |           | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1       |
| Carcinoma                  |           |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1       |
| Parathyroid Gland          | +         | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | M    | +    | 42   |         |
| Pituitary Gland            | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |         |
| Pars Distalis, Adenoma     | X         |      |      | X    | X    | X    |      |      | X    | X    | X    | X    | X    | X    | X    | X    |      |      | 40   |         |
| Thyroid Gland              | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |         |
| C Cell, Adenoma            |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | 1    |         |
| <b>General Body System</b> |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         |
| NONE                       |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         |
| <b>Genital System</b>      |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         |
| Clitoral Gland             | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49   |         |
| Squamous Cell Papilloma    |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |         |
| Ovary                      | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49   |         |
| Sarcoma Stromal            |           |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |         |
| Oviduct                    | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49   |         |
| Uterus                     | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49   |         |
| Polyp Stromal              |           |      |      |      |      |      |      |      | X    |      |      |      |      | X    |      |      |      |      | 2    |         |
| Vagina                     | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | 48   |         |
| Granular Cell Tumor Benign |           |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |         |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:53  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 100PPM/CTL**

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

**Hematopoietic System**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node             | + | + | + | + |   |   |   | + |   | + |   |   |   |   |   | + |   |   |   | 10 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Thymus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |

**Integumentary System**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenocarcinoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | 3  |
| Adenoma                |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Fibroadenoma           |   |   |   | X |   |   |   |   |   | X |   |   |   |   | X |   |   | X | X | 14 |
| Fibroadenoma, Multiple | X | X |   |   |   |   | X | X | X |   |   |   | X |   |   | X |   |   |   | 17 |
| Skin                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibroma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lipoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**Musculoskeletal System**

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

**Nervous 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:53  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 100PPM/CTL | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | *TOTALS |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
|                                | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7  |         |
|                                |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5  |         |
|                                |             | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 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  |         |
|                                |             | 7 | 7 | 7 | 7 | 7 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 8  |         |
|                                |             | 4 | 4 | 4 | 5 | 5 | 6 | 1 | 1 | 1 | 0 | 2 | 3 | 3 | 3 | 7 | 6 | 1 | 7  |         |
|                                |             | 7 | 8 | 9 | 1 | 2 | 0 | 9 | 3 | 4 | 7 | 6 | 4 | 5 | 8 | 9 | 3 | 8 | 5  |         |
| Brain, Brain Stem              |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Brain, Cerebellum              |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Brain, Cerebrum                |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Astrocytoma Malignant          |             | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |         |
| <b>Respiratory System</b>      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |         |
| Lung                           |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Nose                           |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Trachea                        |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| <b>Special Senses System</b>   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |         |
| Eye                            |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 |         |
| Harderian Gland                |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 36 |         |
| <b>Urinary System</b>          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |         |
| Kidney                         |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |         |
| Renal Tubule, Adenoma          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |         |
| Urinary Bladder                |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 48 |         |
| <b>SYSTEMIC LESIONS</b>        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |         |
| Multiple Organ                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 99930-94

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:28:53

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

|                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CD Rat Female<br>F1 500PPM/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 | 0 | 0 |
|                                |             | 3 | 4 | 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 | 7 | 7 | 7 |
|                                |             | 7 | 1 | 0 | 1 | 2 | 4 | 8 | 9 | 0 | 0 | 1 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 0 | 0 | 2 | 3 | 3 | 3 | 3 |
|                                | ANIMAL ID   | 6 | 8 | 7 | 7 | 0 | 7 | 5 | 0 | 2 | 4 | 3 | 8 | 8 | 0 | 7 | 1 | 9 | 1 | 3 | 6 | 8 | 5 | 6 | 4 | 5 | 3 | 7 | 7 | 8 | 8 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                | 0           | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 |
|                                | 6           | 9 | 2 | 2 | 3 | 4 | 0 | 0 | 1 | 1 | 2 | 9 | 8 | 8 | 9 | 0 | 1 | 3 | 3 | 3 | 4 | 6 | 7 | 7 | 9 | 9 | 2 | 9 | 9 | 9 | 3 | 7 |
|                                | 8           | 6 | 2 | 9 | 1 | 5 | 0 | 8 | 3 | 5 | 9 | 1 | 8 | 9 | 7 | 8 | 7 | 5 | 3 | 8 | 5 | 9 | 9 | 7 | 2 | 4 | 7 | 3 | 4 | 5 | 7 |   |

Alimentary System

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Leiomyosarcoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Rectum   |   |   |   |   |   |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + | + | + | + | + |   |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Ileum    | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |   |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

Cardiovascular System

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

Endocrine System

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* ..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: 99930-94

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/22/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 17:28:54

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

| CD Rat Female<br>F1 500PPM/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 |   |   |   |   |   |   |   |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                | ANIMAL ID   | 3 | 4 | 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 | 1 | 0 | 1 | 2 | 4 | 8 | 9 | 0 | 0 | 1 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 8 | 8 | 9 | 9 | 0 | 0 | 2 | 3 | 3 | 3 | 3 |   |   |   |
|                                |             | 6 | 8 | 7 | 7 | 0 | 7 | 5 | 0 | 2 | 4 | 3 | 8 | 8 | 0 | 7 | 1 | 9 | 1 | 3 | 6 | 8 | 5 | 6 | 4 | 5 | 3 | 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 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |   |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 |   |   |   |
|                                |             | 6 | 9 | 2 | 2 | 3 | 4 | 0 | 0 | 1 | 1 | 2 | 9 | 8 | 8 | 9 | 0 | 1 | 3 | 3 | 3 | 4 | 6 | 7 | 7 | 9 | 9 | 2 | 9 | 9 | 3 | 7 |   |   |   |
|                                |             | 8 | 6 | 2 | 9 | 1 | 5 | 0 | 8 | 3 | 5 | 9 | 1 | 8 | 9 | 7 | 8 | 7 | 5 | 3 | 8 | 5 | 9 | 7 | 2 | 4 | 7 | 3 | 4 | 5 | 7 |   |   |   |   |
| Adenoma                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Adrenal Medulla                |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Islets, Pancreatic             |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Adenoma                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parathyroid Gland              |             | + | + | M | + | + | + | + | + | + | + | 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 | X |   |   |   |
| Pars Distalis, Carcinoma       |             |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland                  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| C Cell, Adenoma                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| C Cell, Carcinoma              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicular Cel, Adenoma        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>General Body System</b>     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Tissue NOS                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Liposarcoma                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| <b>Genital System</b>          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Clitoral Gland                 |             | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Ovary                          |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Oviduct                        |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus                         |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leiomyosarcoma                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Polyp Stromal                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:54  
 First Dose M/F: NA / NA  
 Lab: NCTR

| CD Rat Female<br>F1 500PPM/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 |   |   |   |   |   |   |  |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                                | ANIMAL ID   | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |   |   |   |  |
|                                |             | 7 | 1 | 0 | 1 | 2 | 4 | 8 | 9 | 0 | 0 | 1 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 2 | 3 | 3 | 3 | 3 |   |   |   |  |
|                                |             | 6 | 8 | 7 | 7 | 0 | 0 | 7 | 5 | 0 | 2 | 4 | 3 | 8 | 8 | 0 | 7 | 1 | 9 | 1 | 3 | 6 | 8 | 5 | 6 | 4 | 5 | 3 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |  |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 |   |   |   |  |
|                                |             | 6 | 9 | 2 | 2 | 3 | 4 | 0 | 0 | 1 | 1 | 2 | 9 | 8 | 8 | 9 | 0 | 1 | 3 | 3 | 3 | 4 | 6 | 7 | 7 | 9 | 9 | 2 | 9 | 9 | 3 | 7 | 8 |   |   |  |
|                                |             | 8 | 6 | 2 | 9 | 1 | 5 | 0 | 8 | 3 | 5 | 9 | 1 | 8 | 9 | 7 | 8 | 7 | 5 | 3 | 8 | 5 | 9 | 9 | 7 | 7 | 4 | 2 | 3 | 4 | 5 | 7 | 7 |   |   |  |
| Vagina                         |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |  |
| Sarcoma Stromal                |             |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| <b>Hematopoietic System</b>    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Bone Marrow                    |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Lymph Node                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node, Mandibular         |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymph Node, Mesenteric         |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spleen                         |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Thymus                         |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| <b>Integumentary System</b>    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Mammary Gland                  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Adenocarcinoma                 |             |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   | X |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |  |
| Adenocarcinoma, Multiple       |             |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Adenoma                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Fibroadenoma                   |             | X |   | X |   |   | X | X |   | X | X |   | X |   |   |   |   |   |   | X |   |   | X |   |   |   | X |   |   |   |   | X | X |   |   |  |
| Fibroadenoma, Multiple         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   |   |  |
| Skin                           |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Fibroma                        |             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Osteosarcoma                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Sarcoma                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* ..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: 99930-94  
Test Type: SPECIAL STUDY  
Route: DOSED FEED  
Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
Test Compound: Endocrine disruptor (Genistein)  
CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
Time Report Requested: 17:28:54  
First Dose M/F: NA / NA  
Lab: NCTR

| CD Rat Female<br>F1 500PPM/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 |   |   |   |   |   |
|                                | 3           | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |   |   |   |
|                                | 7           | 1 | 0 | 1 | 2 | 4 | 8 | 9 | 0 | 0 | 1 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 8 | 9 | 9 | 0 | 0 | 2 | 3 | 3 | 3 | 3 | 3 |   |
| ANIMAL ID                      | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|                                | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |
|                                | 0           | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 |   |   |
|                                | 6           | 9 | 2 | 2 | 3 | 4 | 0 | 0 | 1 | 1 | 2 | 9 | 8 | 8 | 9 | 0 | 1 | 3 | 3 | 3 | 3 | 4 | 6 | 7 | 7 | 9 | 9 | 2 | 9 | 9 | 3 | 3 |   |
| 8                              | 6           | 2 | 2 | 9 | 1 | 5 | 0 | 8 | 3 | 5 | 9 | 1 | 8 | 9 | 7 | 8 | 1 | 5 | 3 | 8 | 5 | 9 | 7 | 7 | 9 | 7 | 4 | 7 | 3 | 4 | 5 | 7 |   |
| Bone, Femur                    | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Bone, Tibia                    |             |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Nervous System</b>          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Brain, Brain Stem              | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Brain, Cerebellum              | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Brain, Cerebrum                | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| <b>Respiratory System</b>      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung                           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Nose                           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Squamous Cell Carcinoma        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea                        | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| <b>Special Senses System</b>   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eye                            |             | + |   |   |   |   |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   | + | + | + | + | + |   |
| Harderian Gland                |             |   |   |   |   |   |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + | + | + | + |
| Lacrimal Gland                 |             |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Urinary System</b>          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Kidney                         | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Urinary Bladder                | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
| <b>SYSTEMIC LESIONS</b>        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:54  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 500PPM/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 |
|             | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
|             | 8 | 8 | 8 | 9 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 | 9 | 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 |
|             | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 |
|             | 3 | 5 | 5 | 1 | 4 | 5 | 4 | 6 | 6 | 0 | 0 | 5 | 0 | 1 | 1 | 4 | 6 | 7 |
|             | 8 | 3 | 4 | 9 | 9 | 5 | 8 | 8 | 9 | 6 | 7 | 0 | 8 | 7 | 8 | 0 | 9 | 6 |

**\*TOTALS**

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leiomyosarcoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 26 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                 |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

**Cardiovascular System**

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

**Endocrine System**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:55  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 500PPM/CTL**

|                            | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | *TOTALS               |
|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                            | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>8      | 0<br>7<br>3<br>9      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>5      | 0<br>7<br>4<br>8      | 0<br>7<br>4<br>8      | 0<br>7<br>4<br>8      | 0<br>7<br>4<br>9      | 0<br>7<br>5<br>0      | 0<br>7<br>5<br>0      |                       |
| ANIMAL ID                  | 0<br>0<br>5<br>3<br>8 | 0<br>0<br>5<br>5<br>3 | 0<br>0<br>5<br>5<br>5 | 0<br>0<br>6<br>1<br>4 | 0<br>0<br>6<br>4<br>5 | 0<br>0<br>6<br>4<br>5 | 0<br>0<br>6<br>4<br>6 | 0<br>0<br>6<br>6<br>6 | 0<br>0<br>6<br>6<br>6 | 0<br>0<br>7<br>6<br>6 | 0<br>0<br>7<br>7<br>0 | 0<br>0<br>7<br>7<br>5 | 0<br>0<br>8<br>8<br>0 | 0<br>0<br>8<br>8<br>1 | 0<br>0<br>8<br>8<br>1 | 0<br>0<br>8<br>8<br>4 | 0<br>0<br>8<br>8<br>6 | 0<br>0<br>8<br>8<br>7 | 0<br>0<br>9<br>7<br>6 |
| Adenoma                    |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |
| Adrenal Medulla            | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | M                     | +                     | +                     | +                     | +                     | 48                    |
| Islets, Pancreatic         | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Adenoma                    |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Parathyroid Gland          | M                     | +                     | M                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | 43                    |
| Pituitary Gland            | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Pars Distalis, Adenoma     |                       | X                     | X                     | X                     | X                     | X                     | X                     |                       | X                     | X                     | X                     | X                     | X                     | X                     | X                     | X                     | X                     | X                     | 43                    |
| Pars Distalis, Carcinoma   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Thyroid Gland              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| C Cell, Adenoma            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| C Cell, Carcinoma          |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Follicular Cel, Adenoma    |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| <b>General Body System</b> |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Tissue NOS                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Liposarcoma                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| <b>Genital System</b>      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Clitoral Gland             | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 49                    |
| Ovary                      | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 49                    |
| Oviduct                    | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | 47                    |
| Uterus                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Leiomyosarcoma             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     | 1                     |
| Polyp Stromal              |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |

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

Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:55  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 500PPM/CTL**

| DAY ON TEST                 | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID                   | 7              | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                             | 3              | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
|                             | 8              | 8 | 8 | 9 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 | 9 | 0 | 0 | 0 |
| Vagina                      | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sarcoma Stromal             | 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 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
|                             | 3              | 5 | 5 | 1 | 4 | 5 | 4 | 6 | 6 | 0 | 0 | 5 | 0 | 1 | 1 | 4 | 6 | 7 | 1 |
|                             | 8              | 3 | 4 | 9 | 9 | 5 | 8 | 8 | 9 | 6 | 7 | 0 | 8 | 7 | 8 | 0 | 9 | 6 | 6 |
|                             | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Vagina                      | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma Stromal             |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Hematopoietic System</b> |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone Marrow                 | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node                  | +              |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + |
| Lymph Node, Mandibular      | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric      | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                      | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus                      | +              | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + |
| <b>Integumentary System</b> |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mammary Gland               | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenocarcinoma              |                |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Adenocarcinoma, Multiple    |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adenoma                     |                |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma                | X              |   | X |   | X | X |   |   |   |   | X |   | X |   |   |   |   |   |   |
| Fibroadenoma, Multiple      |                |   |   |   |   |   |   |   |   |   | X |   |   | X |   | X |   | X |   |
| Skin                        | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroma                     |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Osteosarcoma                |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Sarcoma                     |                |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

M ..Missing tissue  
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Experiment Number: 99930-94  
 Test Type: SPECIAL STUDY  
 Route: DOSED FEED  
 Species/Strain: Rat/CD

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Test Compound: Endocrine disruptor (Genistein)  
 CAS Number: 446-72-0

Date Report Requested: 10/22/2014  
 Time Report Requested: 17:28:55  
 First Dose M/F: NA / NA  
 Lab: NCTR

**CD Rat Female  
 F1 500PPM/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 |
|                              | 3              | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
|                              | 8              | 8 | 8 | 9 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 | 9 | 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 |
|                              | 5              | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
|                              | 3              | 5 | 5 | 1 | 4 | 5 | 4 | 6 | 6 | 0 | 0 | 5 | 0 | 1 | 1 | 4 | 6 | 7 | 1 |
|                              | 8              | 3 | 4 | 9 | 9 | 5 | 8 | 8 | 9 | 6 | 7 | 0 | 8 | 7 | 8 | 0 | 9 | 6 | 6 |
|                              | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone, Femur                  | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bone, Tibia                  |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| <b>Nervous System</b>        |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Brain, Brain Stem            | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebellum            | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum              | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Respiratory System</b>    |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung                         | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nose                         | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Squamous Cell Carcinoma      |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Trachea                      | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>Special Senses System</b> |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eye                          | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland              | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland               | +              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| <b>Urinary System</b>        |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Kidney                       | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary Bladder              | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| <b>SYSTEMIC LESIONS</b>      |                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Multiple Organ               | +              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
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 I ..Insufficient tissue  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
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**Experiment Number:** 99930-94

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**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** Endocrine disruptor (Genistein)

**CAS Number:** 446-72-0

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 17:28:55

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

**Lab:** NCTR

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

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

+ ..Tissue examined microscopically

X ..Lesion present

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