

Experiment Number: 99930-97
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/17/2014
Time Report Requested: 12:47:52
First Dose M/F: NA / NA
Lab: NCTR

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

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CD Rat Male
F2 0 PPM

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

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Inflammation, Chronic	1	1		1	1	1	1		1	1		1	1	1	1		1	1	1		1		1	1	18 1.0
Malformation													X												1
Necrosis																			1						1 1.0
Vacuolization Cytoplasmic					1									1					1						3 1.0

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Accessory Adrenal Cortical Nodule														X					X						2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pars Distalis, Cyst												X													1
Pars Distalis, Cyst, Multiple						X	X																		2
Pars Distalis, Vacuolization Cytoplasmic						2	2	1																	3 1.7
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25

General Body System

NONE

Genital System

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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CD Rat Male F2 0 PPM	DAY ON TEST																								*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Coagulating Gland	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	24	
Epididymis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	25	
Infiltration Cellular, Lymphocyte	1	1	1	1	1	0	0	2	1	1	1	1	1	2	2	1	1	1	2	2	1	2	2	1	1.0
Prostate	3	3	3	3	3	3	3	7	7	7	8	8	8	1	2	2	2	2	5	6	6	9	9	5	
Prostate, Dorsal Lobe	3	4	5	6	7	8	9	7	8	9	0	1	2	9	0	1	2	3	9	0	1	2	6	25	
Inflammation, Chronic			1			1					1			1			1		2		2		7	1.3	
Inflammation, Suppurative						1						1			2							1		4	1.3
Prostate, Ventral Lobe	1	1	2	1	2	1	1	2	2	1	1	1			1	2		2		1	3	2	1	25	
Inflammation, Chronic						2	1					2			2	2						1		19	1.5
Inflammation, Suppurative																								6	1.7
Rete Testes	1	1	2	1	2	1	1	2	2	1	1	1			1	2		2		1	3	2	1	25	
Seminal Vesicle	1	1	2	1	2	1	1	2	2	1	1	1			1	2		2		1	3	2	1	25	
Dilatation															1									1	1.0
Testes	1	1	2	1	2	1	1	2	2	1	1	1			1	2		2		1	3	2	1	25	
Seminif Tub, Degeneration										1								1				3		3	1.7
Hematopoietic System																									
Bone Marrow	1	1	2	1	2	1	1	2	2	1	1	1			1	2		2		1	3	2	1	25	
Spleen	1	1	2	1	2	1	1	2	2	1	1	1			1	2		2		1	3	2	1	25	
Adventitia, Inflammation, Chronic																		1						1	1.0
Pigmentation						1		1							2		1						2	5	1.4
Thymus	1	1	2	1	2	1	1	2	2	1	1	1			1	2		2		1	3	2	1	25	
Integumentary System																									

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CD Rat Male F2 0 PPM	DAY ON TEST																								ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0		
	1	1	1	1	1	0	0	2	1	1	1	1	1	1	2	2	1	1	1	2	2	1	1	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		
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	0		
	3	3	3	3	3	3	3	7	7	7	8	8	8	1	2	2	2	2	2	5	6	6	6	6	0		
	3	4	5	6	7	8	9	7	8	9	0	1	2	9	0	1	2	3	9	0	1	2	6	7	0		
																											*TOTALS
Mammary Gland	+	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24		
Alveolus, Hyperplasia												2												2		2	2.0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Musculoskeletal System																											
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Nervous System																											
NONE																											
Respiratory System																											
NONE																											
Special Senses System																											
NONE																											
Urinary System																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Inflammation, Chronic	1	1		1	1	1	1		2	1	1	1		1	1	2	1	1	1	1	1	1	1		20	1.1	
Renal Tubule, Dilatation				2	1		1		2		1			2		2						3			8	1.8	
Renal Tubule, Regeneration	1			1	1									1		1			1	1	1				8	1.0	

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 F2 5 PPM

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

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Coagulating Gland

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Epididymis

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Prostate

			+				+	+					+	+	+	+		+							9
--	--	--	---	--	--	--	---	---	--	--	--	--	---	---	---	---	--	---	--	--	--	--	--	--	---

Prostate, Dorsal Lobe

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Inflammation, Chronic

2				1									1											1	4 1.3
---	--	--	--	---	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	--	---	-------

Inflammation, Suppurative

2	1				1					2				1									2		6 1.5
---	---	--	--	--	---	--	--	--	--	---	--	--	--	---	--	--	--	--	--	--	--	--	---	--	-------

Prostate, Ventral Lobe

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Inflammation, Chronic

2	1			2	2	1				2	2	2				2		2			1	1	1	2	1	15 1.6
---	---	--	--	---	---	---	--	--	--	---	---	---	--	--	--	---	--	---	--	--	---	---	---	---	---	--------

Inflammation, Suppurative

2													2												2 2.0
---	--	--	--	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--	-------

Rete Testes

+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	22
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Seminal Vesicle

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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Lab: NCTR

**CD Rat Male
F2 5 PPM**

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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	*TOTALS	
Dilatation																									2	
Epithelium, Hyperplasia																										2
Inflammation, Chronic																										1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Hematopoietic System																										
NONE																										
Integumentary System																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Musculoskeletal System																										
NONE																										
Nervous System																										
NONE																										
Respiratory System																										
NONE																										
Special Senses System																										
NONE																										
Urinary System																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Capsule, Fat, Cyst																										X
																										1

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 F2 5 PPM**

	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			
	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I			
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
	I	I	I	0	0	I	I	I	I	I	I	2	I	I	I	I	I	I	3	3	3	I	0	3	I		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7			
	4	4	4	4	4	8	8	8	8	8	8	2	2	2	2	2	2	3	6	6	6	6	9	1			
	0	1	2	3	4	3	4	5	6	7	8	4	5	6	7	8	9	0	3	4	5	6	7	8	5		
																									*TOTALS		
Casts Protein																									2	1.0	
Cortex, Cyst																									1		
Inflammation, Chronic	1	1	1					1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	16	1.0
Renal Tubule, Dilatation																									1	1.0	
Renal Tubule, Mineralization																									1	1.0	
Renal Tubule, Regeneration																									3	1.0	

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

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CD Rat Male
F2 100 PPM

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

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	24	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Hypospermia	3																								1 3.0	
Prostate						+										+	+		+						5	
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Epithelium, Hyperplasia										1															1 1.0	
Inflammation, Chronic	2	1		1					1					1									1		6 1.2	
Inflammation, Suppurative	2	1							2	2				1	2								2		8 1.6	
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Inflammation, Chronic	2	1	2	2					2		1		1		2	2	1					2	2	1	1	15 1.5
Inflammation, Suppurative			1			1			2	2			1										1			6 1.3

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-97
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: Endocrine disruptor (Genistein)
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014
 Time Report Requested: 12:47:53
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Male
F2 500 PPM

	DAY ON TEST																										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	*TOTALS	
Duct, Hyperplasia	1										2	2	2	1			1				1		2	1	1	10	1.4
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Musculoskeletal System																											
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Nervous System																											
NONE																											
Respiratory System																											
NONE																											
Special Senses System																											
NONE																											
Urinary System																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Capsule, Fat, Cyst																									X	1	
Cortex, Cyst			X										X													2	
Inflammation, Chronic		1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	23	1.0	
Pelvis, Dilatation															2											1	2.0
Renal Tubule, Dilatation	1		2			1		1										2	1						6	1.3	
Renal Tubule, Mineralization		1	1												1					1	1			1	6	1.0	
Renal Tubule, Regeneration	1		1		1					1	1	1		1							1	1			9	1.0	
Urinary Bladder																								+	1		

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Experiment Number: 99930-97

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/17/2014

Time Report Requested: 12:47:53

First Dose M/F: NA / NA

Lab: NCTR

END OF MALE DATA

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

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

Date Report Requested: 10/17/2014
 Time Report Requested: 12:47:53
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Female
F2 0 PPM

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	0	1	0	0	0	0	1	0	0	0	0	2	2	1	1	2	1	1	3	2	2	1	4		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7		
	1	1	1	1	1	1	1	5	5	5	5	5	5	0	0	0	4	4	4	4	8	8	8	8		
	0	1	2	3	4	5	6	7	8	9	9	9	0	1	2	2	3	4	5	2	3	4	5	8		
	*TOTALS																									
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Decidual Reaction	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24	
Diestrus									X	X	X	X					X		X	X					7	
Estrus	X		X		X										X							X			5	
Metestrus				X		X	X	X				X		X											6	
Proestrus		X											X				X			X	X		X	X	7	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	24	
Diestrus									X	X	X	X					X		X	X					7	
Estrus	X		X		X										X						X	X			6	
Metestrus				X		X	X	X				X		X											6	
Proestrus		X											X				X		X				X		5	
Hematopoietic System																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Integumentary System																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	24	
Alveolus, Hyperplasia	1		2	2	2	2		1	1	2	1	1	2	1		1	2	2	2	2				2	18 1.6	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Musculoskeletal System																										
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	

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Experiment Number: 99930-97
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Date Report Requested: 10/17/2014
 Time Report Requested: 12:47:54
 First Dose M/F: NA / NA
 Lab: NCTR

**CD Rat Female
 F2 5 PPM**

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

NONE
Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Bilateral, Cyst										X														1	
Cyst	X														X									2	
Inflammation, Chronic Active		1									2													2 1.5	
Mineralization	1	3	1	2		3	1	1		4	1	4	1	1		1	1	2	1	1	2		3 1 1	21 1.7	
Parenchym Cell, Proliferation, Focal																							1		1 1.0
Pelvis, Dilatation																					3				1 3.0

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Experiment Number: 99930-97
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: Endocrine disruptor (Genistein)
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014
 Time Report Requested: 12:47:54
 First Dose M/F: NA / NA
 Lab: NCTR

**CD Rat Female
 F2 100 PPM**

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

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Diestrus			X	X					X	X		X	X											6
Estrus	X				X						X				X						X	X		6
Metestrus		X				X	X				X	X						X						6
Proestrus				X				X	X							X	X	X		X				7
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Decidual Reaction	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X	X	X	23
Diestrus			X	X					X	X		X	X											6
Estrus	X				X						X				X							X	X	6
Metestrus		X				X	X				X	X						X						6

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+ ..Tissue examined microscopically

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Experiment Number: 99930-97
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: Endocrine disruptor (Genistein)
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014
 Time Report Requested: 12:47:54
 First Dose M/F: NA / NA
 Lab: NCTR

**CD Rat Female
 F2 100 PPM**

DAY ON TEST	ANIMAL ID																								*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7
	6	6	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	24
	0	0	9	9	1	0	0	0	0	0	0	0	0	2	1	1	1	1	0	3	2	2	0	9	6
Proestrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Vagina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Diestrus	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	6
Estrus	2	2	2	2	6	6	6	6	1	1	1	1	1	5	5	5	5	5	5	8	9	9	1	1	8
Metestrus	1	2	3	4	6	7	8	9	0	1	2	3	0	1	2	3	4	5	5	6	9	1	2	6	
Proestrus					X				X		X							X	X	X		X		4	
Hematopoietic System																									
NONE																									
Integumentary System																									
Mammary Gland																									
Alveolus, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
	3	2	1	2	1	1	1			2	2	3	1		3		1	2		1			1	16 1.7	
Musculoskeletal System																									
NONE																									
Nervous System																									
NONE																									
Respiratory System																									
NONE																									
Special Senses System																									
NONE																									

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Experiment Number: 99930-97
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

Date Report Requested: 10/17/2014
 Time Report Requested: 12:47:54
 First Dose M/F: NA / NA
 Lab: NCTR

**CD Rat Female
 F2 100 PPM**

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

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst														X					X								2
Inflammation, Chronic Active			2																					1			2 1.5
Mineralization	1	4	1	4	1	2	1	3	1	3	2	1	1	1	1			1	1	1	1	1	1	1	1	23 1.5	
Renal Tubule, Dilatation, Focal																							2				1 2.0

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

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Date Report Requested: 10/17/2014
 Time Report Requested: 12:47:54
 First Dose M/F: NA / NA
 Lab: NCTR

**CD Rat Female
 F2 500 PPM**

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

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Bile Duct, Inflammation																				X					1
Developmental Malformation								X																	1
Inflammation, Chronic Active, Focal														1											1 1.0
Median Lobe, Developmental Malformation	X																								1
Necrosis, Focal																				1					1 1.0

Cardiovascular System

NONE

Endocrine System

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

General Body System

NONE

Genital System

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst				X																					1

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Experiment Number: 99930-97

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/17/2014

Test Type: SPECIAL STUDY

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 12:47:55

Route: DOSED FEED

CAS Number: 446-72-0

First Dose M/F: NA / NA

Species/Strain: Rat/CD

Lab: NCTR

CD Rat Female F2 500 PPM	DAY ON TEST																							*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	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	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	
	2	2	2	2	3	3	3	7	7	7	7	7	7	1	1	1	1	1	5	9	9	9	1	
	5	6	7	9	0	1	2	0	1	2	3	4	5	6	4	5	7	8	7	5	3	4	3	
Diestrus								X		X					X	X		X	X			6		
Estrus			X															X				2		
Metestrus		X					X						X					X	X	X	X	7		
Proestrus	X			X	X	X		X	X		X	X	X		X							10		
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Decidual Reaction	X	X	X		X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	22		
Diestrus								X		X					X	X			X	X		6		
Estrus			X															X				2		
Metestrus		X					X						X					X	X	X	X	7		
Proestrus	X			X	X	X		X	X		X	X	X		X							10		
Vagina	+	+	M	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	23		
Diestrus							X			X					X	X			X	X		6		
Estrus								X										X				2		
Metestrus		X					X						X					X	X	X	X	7		
Proestrus	X			X	X			X	X	X	X	X		X								8		
Hematopoietic System																								
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Integumentary System																								
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		

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

Experiment Number: 99930-97
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: Endocrine disruptor (Genistein)
 CAS Number: 446-72-0

Date Report Requested: 10/17/2014
 Time Report Requested: 12:47:55
 First Dose M/F: NA / NA
 Lab: NCTR

**CD Rat Female
 F2 500 PPM**

	DAY ON TEST																										
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5			
	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4	2	4	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			
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7			
	2	2	2	2	3	3	7	7	7	7	7	7	7	1	1	1	1	1	1	5	9	9	9	1			
	5	6	7	9	0	1	2	1	2	3	4	5	6	4	5	6	7	8	7	8	3	4	5	3	*TOTALS		
Alveolus, Hyperplasia	1	3	1		3	3	1	1	2	3	1	1	2	1	2		1	1	2	1	1		1	2	21	1.6	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Musculoskeletal System																											
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Nervous System																											
NONE																											
Respiratory System																											
NONE																											
Special Senses System																											
NONE																											
Urinary System																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Cyst				X	X																				2		
Infarct											X														1		
Mineralization	2	2	3	1		2	1		1	1	1		1	3	1	2	1	1	2		4	1	3	19	1.7		

** END OF REPORT **

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