

Experiment Number: 99920-95
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)
CAS Number: 57-63-6

Date Report Requested: 10/23/2014
Time Report Requested: 12:59:50
First Dose M/F: NA / NA
Lab: NCTR

C Number: MG96006
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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 First Dose M/F: NA / NA
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**CD Rat Male
 F4 CONTROL**

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

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst												X													1
Infiltration Cellular, Lymphocyte										1															1 1.0
Inflammation, Chronic Active	1		1		1		1						1	1	1		1	1	1	1	1	1	1	1	13 1.0

Cardiovascular System

NONE																									
Endocrine System																									
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Accessory Adrenal Cortical Nodule																							X		1
Vacuolization Cytoplasmic										1		1	2				1								4 1.3
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst, Squamous			X	X											X	X		X	X						6

General Body System

NONE																									
Genital System																									
Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Bilateral, Developmental Malformation																							X		1

* ..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
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CD Rat Male F4 CONTROL	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	0			
	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0			
	1	1	0	0	1	1	0	0	9	2	1	1	1	0	2	2	1	2	0	2	5	4	2	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0			
	6	6	6	6	0	0	0	0	0	4	4	4	5	5	8	9	9	9	9	2	2	2	2	3	0			
	1	2	3	4																					1			
Developmental Malformation							X	X	X				X	X	X	X	X									9		
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25		
Prostate, Dorsal/Lateral Lobe	+	+	+	+		+	+		+	+			+	+		+	+	+	+	+	+	+	+	+		25		
Inflammation, Suppurative					1			1		2	2		1		1											6	1.3	
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25		
Infiltration Cellular, Lymphocyte			1	1	1	2	2		1		1			1	1	2			2	2		1		2		14	1.4	
Inflammation, Suppurative												1														1	1.0	
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25		
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25		
Seminif Tub, Degeneration	1																									1	1.0	
Hematopoietic System																												
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	
Integumentary System																												
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	
Alveolus, Hyperplasia								1											1			1				3	1.0	
Duct, Hyperplasia				1																							1	1.0
Musculoskeletal System																												
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	

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CD Rat Female F4 CONTROL	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	*TOTALS	
	ANIMAL ID	1	1	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		6	6	6	6	5	6	6	6	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
		1	1	0	0	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
		9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	1	1	1	1	1		
		4	4	4	4	4	8	8	8	8	2	2	2	2	6	6	6	7	7	7	0	0	1	3	3		
		0	1	2	3	4	3	4	5	6	7	6	7	8	9	7	8	9	0	1	2	8	9	0	6	7	

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Developmental Malformation																									X	1

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Bilateral, Keratin Cyst												X														1
Keratin Cyst														X												1

General Body System

NONE

Genital System

Clitoral Gland																											3
Distended																									X	3	
Inflammation, Chronic Active																									3	3 3.0	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Cyst																									X X	2	

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**CD Rat Female
 F4 CONTROL**

	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	0	
ANIMAL ID	1	1	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Diestrus	X		X	X	X			X														X		6	
Estrus						X	X			X	X			X					X		X			7	
Follicle, Cyst																						X		1	
Metestrus											X					X						X	X	4	
Proestrus		X						X				X		X	X		X	X		X				8	
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus			X	X	X			X														X		5	
Estrus						X	X			X	X			X					X		X			7	
Metestrus	X										X					X						X	X	5	
Proestrus		X						X				X		X	X		X	X		X				8	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus	X		X	X	X			X																5	
Estrus						X	X			X	X			X		X			X		X			8	
Metestrus											X					X						X	X	5	
Proestrus		X						X				X		X			X	X		X				7	
Hematopoietic System																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Integumentary System																									
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	

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**CD Rat Female
 F4/2PPB TO CTRL**

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

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst															X										1
Diestrus			X								X						X		X			X	X	X	7
Estrus	X		X	X	X			X	X		X	X				X				X	X				11
Metestrus						X			X					X											3
Proestrus						X							X		X			X							4
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Diestrus			X								X						X					X	X	X	6
Estrus	X		X	X	X			X	X		X	X				X				X	X				11
Metestrus						X			X					X					X						4

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CD Rat Female F4/2PPB TO CTRL	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	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0			
	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4	4	4	4	4	8	8	9	9	9	9	3	3	3	3	3	3	7	7	7	7	7	7	0			
	5	6	7	8	9	8	9	0	1	2	3	0	1	2	3	4	5	3	4	5	6	7	3	0			
																											*TOTALS
Proestrus																											4
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Diestrus		X									X							X				X	X	6			
Estrus			X	X	X						X	X					X				X			7			
Metestrus	X						X	X	X	X				X					X	X				8			
Proestrus						X							X	X				X						4			
Hematopoietic System																											
NONE																											
Integumentary System																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25			
Alveolus, Hyperplasia	1	1	2	2	2	1		1	1					2	2		1	1		1	2			14	1.4		
Lobules, Hyperplasia	1		1	1	1			1	2	2				1			1				2			10	1.3		
Musculoskeletal System																											
NONE																											
Nervous System																											
NONE																											
Respiratory System																											
NONE																											
Special Senses System																											

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

Alimentary System

Esophagus	+	1
Liver	+	1
Pancreas	+	1

Cardiovascular System

Blood Vessel	+	1
Heart	+	1

Endocrine System

Adrenal Cortex	+	+	2
Adrenal Medulla	+	+	2
Pituitary Gland	+		1
Thyroid Gland	+		1

General Body System

NONE																									
Genital System																									
Clitoral Gland	M		0																						
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Diestrus			X		X		X	X	X			X		X						X		X			9
Estrus				X								X													2
Metestrus										X			X							X					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: 99920-95
 Test Type: SPECIAL STUDY
 Route: DOSED FEED
 Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)
 CAS Number: 57-63-6

Date Report Requested: 10/23/2014
 Time Report Requested: 12:59:53
 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Female F4/10PPB TO CTRL	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	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	3	1	1	0	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
	1	5	5	5	5	5	9	9	9	9	3	3	3	4	4	4	7	7	8	8	8	8	8	8	
	5	0	1	2	3	4	4	5	6	7	8	6	7	8	9	0	1	1	1	1	1	1	1	1	
Proestrus	X	X			X		X	X			X						X	X	X	X	X		X	12	
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Diestrus			X			X			X	X				X	X							X		7	
Estrus				X									X											2	
Metestrus								X				X			X						X		X	5	
Proestrus	X	X			X		X	X			X						X	X	X	X	X		X	12	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Diestrus			X			X			X	X				X	X							X		7	
Estrus				X			X						X							X				4	
Metestrus								X			X			X							X		X	5	
Proestrus	X	X			X		X				X						X	X	X		X		X	10	
Hematopoietic System																									
Bone Marrow	+																							1	
Lymph Node	+																							1	
Lymph Node, Mandibular	+																							1	
Spleen	+								+															2	
Thymus	+																							1	
Integumentary System																									
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Alveolus, Hyperplasia			1		2	1	1	1				1	1											7 1.1	
Lobules, Hyperplasia					1		2																	2 1.5	

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Date Report Requested: 10/23/2014
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 First Dose M/F: NA / NA
 Lab: NCTR

CD Rat Female F4/50PPB TO CTRL	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	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	
ANIMAL ID	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	0	1	1	1	0	1	1	1	0	0	1	1	1	1	1	4	4	2	0	
	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus	X		X	X			X			X						X					X			7	
Estrus													X										X	2	
Metestrus			X			X				X	X			X		X					X			7	
Proestrus					X			X	X			X				X	X	X	X				X	9	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus			X	X	X		X			X						X						X		7	
Estrus						X		X	X					X										5	
Metestrus										X	X			X		X					X			5	
Proestrus	X				X							X				X	X	X	X				X	8	
Hematopoietic System																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Integumentary System																									
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Alveolus, Hyperplasia	1	2	2	1	1	2				1			2	1										9 1.4	
Lobules, Hyperplasia			1	2		1						1												4 1.3	
Musculoskeletal System																									
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	

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