

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

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
ABRIDGED) (a)**

**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 12:58:46  
**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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**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
 CAS Number: 57-63-6

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

CD Rat MALE	F4	CONTROL	F4/2PPB TO CTRL	F4/10PPB TO CTRL	F4/50PPB TO CTRL
<b>Disposition Summary</b>					
Animals Initially In Study		25	25	26	25
Early Deaths					
Moribund Sacrifice				1	
Survivors					
Terminal Sacrifice		25	25	25	25
Animals Examined Microscopically		25	25	26	25
<b>ALIMENTARY SYSTEM</b>					
Esophagus		(0)	(0)	(1)	(0)
Liver		(25)	(1)	(2)	(25)
Pancreas		(0)	(0)	(1)	(0)
<b>CARDIOVASCULAR SYSTEM</b>					
Blood Vessel		(0)	(0)	(1)	(0)
Heart		(0)	(0)	(1)	(0)
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex		(25)	(0)	(1)	(25)
Adrenal Medulla		(25)	(0)	(1)	(25)
Pituitary Gland		(25)	(0)	(2)	(25)
Thyroid Gland		(25)	(0)	(0)	(25)
<b>GENERAL BODY SYSTEM</b>					
None					
<b>GENITAL SYSTEM</b>					
Coagulating Gland		(25)	(25)	(26)	(24)
Epididymis		(25)	(25)	(26)	(25)
Preputial Gland		(0)	(2)	(1)	(0)
Prostate, Dorsal/Lateral Lobe		(6)	(7)	(10)	(6)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

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First Dose M/F: NA / NA

Lab: NCTR

CD Rat MALE	F4	CONTROL	F4/2PPB TO CTRL	F4/10PPB TO CTRL	F4/50PPB TO CTRL
Prostate, Dorsal/lateral Lobe	(19)	(18)	(16)	(19)	(19)
Prostate, Ventral Lobe	(25)	(25)	(26)	(25)	(25)
Rete Testes	(25)	(24)	(26)	(25)	(25)
Seminal Vesicle	(25)	(25)	(26)	(25)	(25)
Testes	(25)	(25)	(26)	(25)	(25)
HEMATOPOIETIC SYSTEM					
Bone Marrow	(25)	(0)	(1)	(25)	(25)
Spleen	(25)	(0)	(1)	(25)	(25)
Thymus	(25)	(0)	(1)	(25)	(25)
INTEGUMENTARY SYSTEM					
Mammary Gland	(25)	(25)	(25)	(25)	(25)
Skin	(0)	(0)	(1)	(0)	(0)
MUSCULOSKELETAL SYSTEM					
Bone	(25)	(0)	(1)	(25)	(25)
NERVOUS SYSTEM					
Brain	(0)	(0)	(1)	(0)	(0)
Spinal Cord	(0)	(0)	(1)	(0)	(0)
RESPIRATORY SYSTEM					
Lung	(0)	(0)	(1)	(0)	(0)
Trachea	(0)	(0)	(1)	(0)	(0)
SPECIAL SENSES SYSTEM					
None					
URINARY SYSTEM					
Kidney	(25)	(0)	(1)	(25)	(25)
Urinary Bladder	(0)	(0)	(1)	(0)	(0)

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\* Number of animals with any tissue examined microscopically

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**CD Rat MALE**

**F4**

**CONTROL**

**F4/2PPB TO CTRL**

**F4/10PPB TO CTRL**

**F4/50PPB TO CTRL**

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**CD Rat MALE**

**F4 CONTROL F4/2PPB TO CTRL F4/10PPB TO CTRL F4/50PPB TO CTRL**

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**Tumor Summary for MALE**

**Total Animals with Primary Neoplasms (b)**

**Total Primary Neoplasms**

**Total Animals with Benign Neoplasms**

**Total Benign Neoplasms**

**Total Animals with Malignant Neoplasms**

**Total Malignant Neoplasms**

**Total Animals with Metastatic Neoplasms**

**Total Metastatic Neoplasms**

**Total Animals with Malignant Neoplasms  
Uncertain Primary Site**

**Total Animals with Neoplasms Uncertain -  
Benign or Malignant**

**Total Uncertain Neoplasms**

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\*\*\*END OF MALE DATA\*\*\*

a - Number of animals examined microscopically at site and number of animals with lesion

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 Lab: NCTR

CD Rat FEMALE	F4	CONTROL	F4/2PPB TO CTRL	F4/10PPB TO CTRL	F4/50PPB TO CTRL
<b>Disposition Summary</b>					
Animals Initially In Study		25	25	26	25
Early Deaths					
Natural Death				1	
Survivors					
Terminal Sacrifice		25	25	25	25
Animals Examined Microscopically		25	25	26	25
<b>ALIMENTARY SYSTEM</b>					
Esophagus		(0)	(0)	(1)	(0)
Liver		(25)	(0)	(1)	(25)
Pancreas		(0)	(0)	(1)	(0)
<b>CARDIOVASCULAR SYSTEM</b>					
Blood Vessel		(0)	(0)	(1)	(0)
Heart		(0)	(0)	(1)	(0)
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex		(25)	(0)	(2)	(25)
Adrenal Medulla		(25)	(0)	(2)	(25)
Pituitary Gland		(25)	(0)	(1)	(25)
Thyroid Gland		(25)	(0)	(1)	(25)
<b>GENERAL BODY SYSTEM</b>					
None					
<b>GENITAL SYSTEM</b>					
Clitoral Gland		(3)	(0)	(0)	(0)
Ovary		(25)	(25)	(26)	(25)
Oviduct		(25)	(25)	(26)	(25)
Uterus		(25)	(25)	(26)	(25)

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Vagina	(25)		(25)	(26)	(25)
<b>HEMATOPOIETIC SYSTEM</b>					
Bone Marrow	(25)		(0)	(1)	(25)
Lymph Node	(0)		(0)	(1)	(0)
Lymph Node, Mandibular	(0)		(0)	(1)	(0)
Spleen	(25)		(0)	(2)	(25)
Thymus	(25)		(0)	(1)	(25)
<b>INTEGUMENTARY SYSTEM</b>					
Mammary Gland	(25)		(25)	(26)	(25)
Skin	(0)		(0)	(1)	(0)
<b>MUSCULOSKELETAL SYSTEM</b>					
Bone	(25)		(0)	(1)	(25)
<b>NERVOUS SYSTEM</b>					
Brain	(0)		(0)	(1)	(0)
<b>RESPIRATORY SYSTEM</b>					
Lung	(0)		(0)	(1)	(0)
Trachea	(0)		(0)	(1)	(0)
<b>SPECIAL SENSES SYSTEM</b>					
None					
<b>URINARY SYSTEM</b>					
Kidney	(25)		(25)	(26)	(25)
<b>SYSTEMIC LESIONS</b>					
Multiple Organ	* (25)		* (25)	* (26)	* (25)
Lymphoma Malignant				1 (4%)	

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<b>Tumor Summary for FEMALE</b>					
Total Animals with Primary Neoplasms (b)				1	
Total Primary Neoplasms				1	
Total Animals with Benign Neoplasms					
Total Benign Neoplasms					
Total Animals with Malignant Neoplasms				1	
Total Malignant Neoplasms				1	
Total Animals with Metastatic Neoplasms					
Total Metastatic Neoplasms					
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain - Benign or Malignant					
Total Uncertain Neoplasms					

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

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically