

**Experiment Number:** 99920-98  
**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:** 09:38:30  
**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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 CAS Number: 57-63-6

Date Report Requested: 10/23/2014  
 Time Report Requested: 09:38:30  
 First Dose M/F: NA / NA  
 Lab: NCTR

CD Rat MALE	F1	CONTROL	F1	2.0 PPB	F1	10 PPB	F1	50 PPB
<b>Disposition Summary</b>								
Animals Initially In Study		25		25		25		26
Early Deaths								
Moribund Sacrifice								1
Survivors								
Terminal Sacrifice		25		25		25		25
Animals Examined Microscopically		25		25		25		26
<b>ALIMENTARY SYSTEM</b>								
Esophagus		(0)		(0)		(0)		(1)
Liver		(25)		(1)		(1)		(26)
Mesentery		(1)		(0)		(1)		(0)
Oral Mucosa		(0)		(0)		(0)		(1)
Pancreas		(0)		(0)		(0)		(1)
<b>CARDIOVASCULAR SYSTEM</b>								
Blood Vessel		(0)		(0)		(0)		(1)
Heart		(0)		(0)		(0)		(1)
<b>ENDOCRINE SYSTEM</b>								
Adrenal Cortex		(25)		(0)		(0)		(26)
Adrenal Medulla		(25)		(0)		(0)		(26)
Pituitary Gland		(24)		(0)		(0)		(26)
Thyroid Gland		(25)		(0)		(0)		(26)
<b>GENERAL BODY SYSTEM</b>								
None								
<b>GENITAL SYSTEM</b>								
Coagulating Gland		(25)		(24)		(25)		(26)
Epididymis		(25)		(25)		(25)		(26)

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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CD Rat MALE	F1	CONTROL	F1	2.0 PPB	F1	10 PPB	F1	50 PPB
Preputial Gland		(3)		(2)		(3)		(1)
Prostate, Dorsal/Lateral Lobe		(9)		(3)		(10)		(4)
Prostate, Dorsal/lateral Lobe		(16)		(22)		(15)		(22)
Prostate, Ventral Lobe		(25)		(25)		(25)		(26)
Rete Testes		(25)		(23)		(24)		(25)
Seminal Vesicle		(25)		(25)		(25)		(26)
Testes		(25)		(25)		(25)		(26)
<b>HEMATOPOIETIC SYSTEM</b>								
Bone Marrow		(25)		(0)		(0)		(26)
Spleen		(25)		(0)		(0)		(26)
Thymus		(25)		(0)		(0)		(26)
<b>INTEGUMENTARY SYSTEM</b>								
Mammary Gland		(25)		(24)		(25)		(26)
Skin		(0)		(0)		(0)		(1)
<b>MUSCULOSKELETAL SYSTEM</b>								
Bone		(25)		(0)		(0)		(26)
<b>NERVOUS SYSTEM</b>								
Brain		(0)		(0)		(0)		(1)
Spinal Cord		(0)		(0)		(0)		(1)
<b>RESPIRATORY SYSTEM</b>								
Lung		(0)		(0)		(0)		(1)
Trachea		(0)		(0)		(0)		(1)
<b>SPECIAL SENSES SYSTEM</b>								
None								
<b>URINARY SYSTEM</b>								

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\* Number of animals with any tissue examined microscopically

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

**Lab:** NCTR

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<b>CD Rat MALE</b>	<b>F1</b>	<b>CONTROL</b>	<b>F1</b>	<b>2.0 PPB</b>	<b>F1</b>	<b>10 PPB</b>	<b>F1</b>	<b>50 PPB</b>
Kidney		(25)		(2)		(25)		(26)
Urinary Bladder		(0)		(0)		(0)		(1)

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CD Rat MALE	F1	CONTROL	F1	2.0 PPB	F1	10 PPB	F1	50 PPB
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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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\* Number of animals with any tissue examined microscopically

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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	F1	CONTROL	F1	2.0 PPB	F1	10 PPB	F1	50 PPB
<b>Disposition Summary</b>								
Animals Initially In Study		25		25		25		25
Early Deaths								
Survivors								
Terminal Sacrifice		25		25		25		25
Animals Examined Microscopically		25		25		25		25
<b>ALIMENTARY SYSTEM</b>								
Liver		(25)		(0)		(0)		(25)
<b>CARDIOVASCULAR SYSTEM</b>								
None								
<b>ENDOCRINE SYSTEM</b>								
Adrenal Cortex		(25)		(0)		(0)		(25)
Adrenal Medulla		(25)		(0)		(0)		(25)
Pituitary Gland		(25)		(0)		(0)		(25)
Thyroid Gland		(25)		(1)		(0)		(25)
<b>GENERAL BODY SYSTEM</b>								
None								
<b>GENITAL SYSTEM</b>								
Clitoral Gland		(1)		(2)		(0)		(1)
Ovary		(25)		(25)		(25)		(25)
Oviduct		(25)		(25)		(25)		(25)
Uterus		(25)		(25)		(25)		(25)
Vagina		(24)		(25)		(25)		(25)
<b>HEMATOPOIETIC SYSTEM</b>								
Bone Marrow		(25)		(0)		(0)		(25)

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

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\* Number of animals with any tissue examined microscopically

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**Lab:** NCTR

CD Rat FEMALE	F1	CONTROL	F1	2.0 PPB	F1	10 PPB	F1	50 PPB
Spleen		(25)		(0)		(0)		(25)
Thymus		(25)		(0)		(0)		(25)
INTEGUMENTARY SYSTEM								
Mammary Gland		(25)		(25)		(25)		(25)
MUSCULOSKELETAL SYSTEM								
Bone		(25)		(0)		(0)		(25)
NERVOUS SYSTEM								
None								
RESPIRATORY SYSTEM								
None								
SPECIAL SENSES SYSTEM								
Eye		(0)		(0)		(1)		(1)
URINARY SYSTEM								
Kidney		(25)		(25)		(25)		(25)

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

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\* Number of animals with any tissue examined microscopically

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**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
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**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:31  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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**CD Rat FEMALE**

**F1 CONTROL**

**F1 2.0 PPB**

**F1 10 PPB**

**F1 50 PPB**

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**Tumor Summary for FEMALE**

**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 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