

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

<b>C Number:</b>	MG96006
<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:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 231	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 98
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 021380100231

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Coagulating Gland	* Esophagus
* Liver	* Lung	* Pancreas	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle	* Skin
* Spinal Cord	* Spleen	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

---

**OBSERVATIONS**

* Epididymis [ Hypospermia TGLS = 3-2 ]		Hypospermia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Mammary Gland	Duct	Hyperplasia	Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Rete Testes Note: Tissue located on slide 7B			
* Sem Ves Note: TGL 2 - NCL			
* Testes [ Degeneration TGLS = 1-10 ]	Seminif Tub	Degeneration	Marked

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**PRIMARY CAUSE OF DEATH** - UNCERTAIN

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 264	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100264

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Liver	* Mammary Gland	* Pituitary Gland
* Rete Testes	* Seminal Vesicle	* Spleen	* Thymus
* Thyroid Gland			

---

**OBSERVATIONS**

* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Interstitium	Fibrosis	Mild
	Renal Tubule	Infiltration Cellular	Lymphocyte, Minimal
		Regeneration	Minimal
[ Fibrosis TGLS = 1-4 ]			
* Prostate, Dorsal/Lateral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Testes	Seminif Tub	Degeneration	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 265

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100265

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Liver	* Mammary Gland	* Pituitary Gland
* Rete Testes	* Seminal Vesicle	* Testes	* Thymus
* Thyroid Gland			

**OBSERVATIONS**

* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Cortex	Cyst	
		Hyaline Droplet	Minimal
[ Cyst TGLS = 1-4 ]			
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Pigmentation	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 266

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100266

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Medulla  
\* Epididymis  
\* Rete Testes  
\* Thymus

\* Bone  
\* Mammary Gland  
\* Seminal Vesicle

\* Bone Marrow  
\* Pituitary Gland  
\* Spleen

\* Coagulating Gland  
\* Prostate, Dorsal/lateral Lobe  
\* Testes

**OBSERVATIONS**

\* Adrenal Cortex  
\* Kidney  
\* Liver  
\* Prostate, Ventral Lobe  
\* Thyroid Gland

Vacuolization Cytoplasmic  
Infiltration Cellular  
Infiltration Cellular  
Infiltration Cellular  
Cyst

Minimal  
Lymphocyte, Mild  
Lymphocyte, Minimal  
Lymphocyte, Minimal  
Squamous

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 267

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100267

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Kidney	* Mammary Gland
* Pituitary Gland	* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Thyroid Gland

**OBSERVATIONS**

* Liver	Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 268

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100268

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Mammary Gland	* Pituitary Gland	* Prostate, Dorsal/lateral Lobe
* Rete Testes	* Seminal Vesicle	* Spleen	* Testes
* Thymus	* Thyroid Gland		

**OBSERVATIONS**

* Coagulating Gland [ Developmental Malformation TGLS = 1-2A ]	Developmental Malformation		
* Kidney	Infiltration Cellular		Lymphocyte, Minimal
* Liver	Inflammation		Chronic Active, Minimal
* Prostate, Ventral Lobe	Infiltration Cellular		Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 269

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100269

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Coagulating Gland  
\* Prostate, Dorsal/lateral Lobe  
\* Testes

\* Adrenal Medulla  
\* Epididymis  
\* Rete Testes  
\* Thymus

\* Bone  
\* Mammary Gland  
\* Seminal Vesicle  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland  
\* Spleen

**OBSERVATIONS**

\* Kidney  
\* Liver  
\* Prostate, Ventral Lobe

Infiltration Cellular  
Infiltration Cellular  
Infiltration Cellular

Lymphocyte, Minimal  
Lymphocyte, Minimal  
Lymphocyte, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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**ANIMAL ID:** 270

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 2.0 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100270

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Coagulating Gland  
\* Seminal Vesicle

\* Epididymis  
\* Testes

\* Mammary Gland

\* Rete Testes

---

**OBSERVATIONS**

\* Prostate, Dorsal/Lateral Lobe  
\* Prostate, Ventral Lobe

Infiltration Cellular  
Infiltration Cellular

Lymphocyte, Minimal  
Lymphocyte, Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 271	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100271

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Mammary Gland	* Prostate, Dorsal/lateral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	

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**OBSERVATIONS**

* Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Minimal
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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 272	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100272

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	

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**OBSERVATIONS**

* Mammary Gland	Alveolus	Hyperplasia	Minimal
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 273	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100273

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Epididymis	* Mammary Gland	* Prostate, Dorsal/lateral Lobe	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Coagulating Gland	Developmental Malformation		
[ Developmental Malformation TGLS = 1-2 ]			
* Prostate, Ventral Lobe	Infiltration Cellular		Lymphocyte, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 274	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100274

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Mammary Gland	* Prostate, Dorsal/lateral Lobe	* Seminal Vesicle
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**OBSERVATIONS**

* Epididymis		Atrophy	Moderate
		Hypospermia	Marked
[ Atrophy TGLS = 2-2A ]			
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Rete Testes		Dilatation	Mild
* Testes	Seminif Tub	Degeneration	Marked
[ Degeneration TGLS = 1-7B ]			

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 275	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100275

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Mammary Gland	* Prostate, Dorsal/lateral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	

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**OBSERVATIONS**

* Kidney [ Cyst TGLS = 1,2-4+4A ]	Cortex	Cyst	
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 276	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100276

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	

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**OBSERVATIONS**

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Mammary Gland	Alveolus	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 277	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100277

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Kidney	* Rete Testes
* Seminal Vesicle	* Testes		

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**OBSERVATIONS**

* Mammary Gland	Alveolus	Hyperplasia	Moderate
* Prostate, Dorsal/Lateral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 278	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100278

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	

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**OBSERVATIONS**

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Mammary Gland	Alveolus	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 279	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100279

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98

**Test Type:** SPECIAL STUDY

**Route:** DOSED FEED

**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014

**Time Report Requested:** 09:38:08

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

**Lab:** NCTR

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**ANIMAL ID:** 280

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100280

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Adrenal Cortex  
\* Coagulating Gland  
\* Mammary Gland  
\* Rete Testes  
\* Thymus

\* Adrenal Medulla  
\* Epididymis  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Thyroid Gland

\* Bone  
\* Kidney  
\* Prostate, Dorsal/lateral Lobe  
\* Spleen

\* Bone Marrow  
\* Liver  
\* Prostate, Ventral Lobe  
\* Testes

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 281	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100281

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Kidney	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle	* Spleen
* Testes	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Liver		Inflammation	Chronic Active, Minimal
* Mammary Gland	Alveolus	Hyperplasia	Marked
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 282	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100282

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Thyroid Gland

---

**OBSERVATIONS**

* Kidney [ Cyst TGLS = 1-4 ]	Cortex	Cyst	Multiple
* Mammary Gland	Alveolus	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 283	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100283

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Thyroid Gland

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
* Mammary Gland	Duct	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 284

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100284

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Coagulating Gland  
\* Prostate, Dorsal/lateral Lobe  
\* Testes

\* Adrenal Medulla  
\* Epididymis  
\* Rete Testes  
\* Thymus

\* Bone  
\* Liver  
\* Seminal Vesicle  
\* Thyroid Gland

\* Bone Marrow  
\* Mammary Gland  
\* Spleen

**OBSERVATIONS**

\* Kidney  
\* Pituitary Gland  
\* Prostate, Ventral Lobe

Renal Tubule  
Pars Distalis

Mineralization  
Cyst  
Infiltration Cellular

Mild  
Multiple  
Lymphocyte, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 305

**TRT#:** 5  
**DOSE:** F1 CONTROL

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 162  
**HISTO:** 021380100305

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Liver	* Mammary Gland	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle	* Spleen
* Thymus	* Thyroid Gland		

**OBSERVATIONS**

* Coagulating Gland		Developmental Malformation	
* Kidney	Cortex	Cyst	
	Renal Tubule	Dilatation	Mild
		Inflammation	Chronic, Mild
	Renal Tubule	Regeneration	Minimal
[ Cyst TGLS = 1-4 ]			
[ Dilatation TGLS = 1-4 ]			
[ Inflammation TGLS = 1-4 ]			
[ Regeneration TGLS = 1-4 ]			
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild
* Testes	Seminif Tub	Degeneration	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 306

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100306

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Mammary Gland
* Pituitary Gland	* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Thyroid Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 307

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100307

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Liver	* Mammary Gland	* Pituitary Gland
* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle	* Spleen
* Testes	* Thymus	* Thyroid Gland	

**OBSERVATIONS**

* Coagulating Gland	Bilateral	Developmental Malformation	
[ Developmental Malformation TGLS = 2-2A ]			
* Kidney	Cortex	Cyst	Lymphocyte, Minimal
[ Cyst TGLS = 1-4 ]			
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 308

**TRT#:** 5  
**DOSE:** F1 CONTROL

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 161  
**HISTO:** 021380100308

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Mammary Gland	* Pituitary Gland	* Prostate, Dorsal/lateral Lobe
* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle	* Spleen
* Testes	* Thymus	* Thyroid Gland	

**OBSERVATIONS**

* Coagulating Gland	Bilateral	Developmental Malformation	
[ Developmental Malformation TGLS = 1-2A ]			
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Infiltration Cellular	Lymphocyte, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99920-98

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 09:38:08

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 309

TRT#: 5

SEX: Male

DAY ON TEST: 161

DOSE: F1 CONTROL

DISP: Terminal Sacrifice

HISTO: 021380100309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Mammary Gland	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle	* Spleen
* Testes	* Thymus	* Thyroid Gland	

OBSERVATIONS

* Kidney	Renal Tubule Interstitialium	Dilatation Fibrosis Infiltration Cellular	Mild Minimal Lymphocyte, Mild
* Liver	Renal Tubule	Regeneration Inflammation	Minimal Chronic Active, Minimal
Preputial Gland		Inflammation	Suppurative, Mild
[ Inflammation TGLS = 1-2 ]			
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 310	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100310

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Mammary Gland	Alveolus	Hyperplasia	Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 311

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 2.0 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100311

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Coagulating Gland  
\* Rete Testes

\* Mammary Gland  
\* Seminal Vesicle

\* Prostate, Dorsal/lateral Lobe

\* Prostate, Ventral Lobe

**OBSERVATIONS**

\* Epididymis

Atrophy  
Hypospermia

Moderate  
Marked

[ Atrophy TGLS = 2-2A ]

\* Testes

Seminif Tub

Degeneration

Marked

[ Degeneration TGLS = 1-7B ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 312	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100312

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Mammary Gland	* Prostate, Dorsal/lateral Lobe
* Seminal Vesicle	* Testes		

---

**INSUFFICIENT TISSUE**

\* Rete Testes

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**OBSERVATIONS**

* Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Minimal
* Rete Testes		

Note: No RC/WT attempt per pathologist

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

**ANIMAL ID:** 313

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 2.0 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100313

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Epididymis	* Mammary Gland	* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe
* Seminal Vesicle	* Testes		

---

**INSUFFICIENT TISSUE**

\* Rete Testes

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**OBSERVATIONS**

* Coagulating Gland	Developmental Malformation
* Rete Testes	

Note: No RC/WT attempt per pathologist

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 314	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100314

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle
* Testes			

---

**OBSERVATIONS**

* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Mammary Gland	Alveolus	Hyperplasia	Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 315	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100315

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Kidney	* Mammary Gland	* Prostate, Dorsal/lateral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	

---

**OBSERVATIONS**

* Epididymis	Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Minimal

---

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 316	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100316

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Kidney	* Mammary Gland
* Rete Testes	* Seminal Vesicle	* Testes	

---

**OBSERVATIONS**

* Prostate, Dorsal/Lateral Lobe	Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Minimal

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 317	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100317

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Mammary Gland	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 318	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100318

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Epididymis		Infiltration Cellular	Lymphocyte, Minimal
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
* Mammary Gland	Duct	Hyperplasia	Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 319

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 10 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100319

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Coagulating Gland

\* Rete Testes

\* Seminal Vesicle

\* Testes

**OBSERVATIONS**

\* Epididymis

Infiltration Cellular

Lymphocyte, Minimal

\* Kidney

Renal Tubule

Dilatation

Mild

Renal Tubule

Infiltration Cellular

Lymphocyte, Minimal

Alveolus

Regeneration

Minimal

\* Mammary Gland

Hyperplasia

Mild

\* Prostate, Dorsal/Lateral Lobe

Inflammation

Suppurative, Mild

\* Prostate, Ventral Lobe

Infiltration Cellular

Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 320	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100320

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Prostate, Dorsal/lateral Lobe	* Seminal Vesicle
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**OBSERVATIONS**

* Epididymis	Epithelium	Atrophy Degeneration Hypospermia Infiltration Cellular	Mild Mild Marked Lymphocyte, Minimal
[ Atrophy TGLS = 2-2 ] [ Hypospermia TGLS = 2-2 ]			
* Kidney	Renal Tubule	Hyperplasia Inflammation	Mild Chronic, Minimal
* Mammary Gland	Alveolus	Hyperplasia	Marked
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild
* Rete Testes		Dilatation	Moderate
* Testes	Seminif Tub	Degeneration	Marked
[ Degeneration TGLS = 1-7B ]			

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99920-98

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 09:38:08

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 321

TRT#: 8

SEX: Male

DAY ON TEST: 161

DOSE: F1 50 PPB

DISP: Terminal Sacrifice

HISTO: 021380100321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Coagulating Gland  
\* Rete Testes  
\* Thymus

\* Adrenal Medulla  
\* Epididymis  
\* Seminal Vesicle  
\* Thyroid Gland

\* Bone  
\* Pituitary Gland  
\* Spleen

\* Bone Marrow  
\* Prostate, Dorsal/lateral Lobe  
\* Testes

OBSERVATIONS

\* Kidney  
  
  
\* Liver  
\* Mammary Gland  
\* Prostate, Ventral Lobe

Renal Tubule  
Renal Tubule  
  
Renal Tubule  
  
Duct

Degeneration  
Dilatation  
Infiltration Cellular  
Mineralization  
Inflammation  
Hyperplasia  
Infiltration Cellular

Minimal  
Mild  
Lymphocyte, Minimal  
Minimal  
Chronic Active, Minimal  
Mild  
Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 322	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100322

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Liver	* Pituitary Gland	* Prostate, Dorsal/lateral Lobe
* Rete Testes	* Seminal Vesicle	* Spleen	* Testes
* Thymus	* Thyroid Gland		

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**OBSERVATIONS**

* Coagulating Gland	Bilateral	Developmental Malformation	
[ Developmental Malformation TGLS = 1-2A ]			
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
* Mammary Gland	Alveolus	Hyperplasia	Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 323	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100323

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Thyroid Gland

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**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Mammary Gland	Duct	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 324

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100324

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Coagulating Gland
* Epididymis	* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle
* Testes	* Thymus	* Thyroid Gland	

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Kidney		Congestion	Mild
		Hyaline Droplet	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Mineralization	Minimal
[ Congestion TGLS = 1-4 ]			
* Liver		Inflammation	Chronic Active, Minimal
* Mammary Gland	Alveolus	Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Cyst	
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 325	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100325

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Pituitary Gland	* Rete Testes
* Seminal Vesicle	* Spleen	* Testes	* Thymus
* Thyroid Gland			

---

**OBSERVATIONS**

* Kidney [ Congestion TGLS = 1-4 ]		Congestion	Mild
* Liver		Inflammation	Chronic Active, Minimal
* Mammary Gland	Alveolus	Hyperplasia	Mild
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 326

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 160

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100326

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Mammary Gland	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Thyroid Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Mild
	Interstitium	Fibrosis	Mild
	Renal Tubule	Hyperplasia	Minimal
		Infiltration Cellular	Lymphocyte, Mild
	Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Mild
* Liver		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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**ANIMAL ID:** 347

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100347

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Adrenal Cortex  
\* Coagulating Gland  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Thyroid Gland

\* Adrenal Medulla  
\* Epididymis  
\* Prostate, Dorsal/lateral Lobe  
\* Spleen

\* Bone  
\* Liver  
\* Prostate, Ventral Lobe  
\* Testes

\* Bone Marrow  
\* Mammary Gland  
\* Rete Testes  
\* Thymus

---

**OBSERVATIONS**

\* Kidney

Infiltration Cellular

Lymphocyte, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 348	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100348

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Mammary Gland
* Pituitary Gland	* Rete Testes	* Seminal Vesicle	* Spleen
* Testes	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Kidney		Infiltration Cellular Regeneration	Lymphocyte, Minimal Minimal
	Renal Tubule		
* Prostate, Dorsal/Lateral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 349

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100349

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Mammary Gland
* Pituitary Gland	* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Thyroid Gland

**OBSERVATIONS**

* Kidney	Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 350	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100350

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Mammary Gland
* Pituitary Gland	* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Thyroid Gland

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**OBSERVATIONS**

* Kidney		Congestion	Mild
	Cortex	Cyst	
	Renal Tubule	Dilatation	Mild
	Interstitium	Fibrosis	Minimal
		Hyaline Droplet	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
[ Congestion TGLS = 1-4 ]			
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99920-98

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 09:38:08

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 351

TRT#: 5

SEX: Male

DAY ON TEST: 161

DOSE: F1 CONTROL

DISP: Terminal Sacrifice

HISTO: 021380100351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Epididymis  
\* Testes

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Rete Testes  
\* Thyroid Gland

\* Bone Marrow  
\* Spleen

MISSING

\* Pituitary Gland

OBSERVATIONS

\* Coagulating Gland  
\* Kidney  
\* Liver  
Mesentery

Fat

[ Necrosis TGLS = 1-9 ]

\* Pituitary Gl  
Note: Lost at trim

\* Prostate, Dorsal/Lateral Lobe  
\* Prostate, Ventral Lobe  
\* Seminal Vesicle

[ Depletion Secretory TGLS = 2-2A ]

Developmental Malformation  
Infiltration Cellular  
Inflammation  
Necrosis

Lymphocyte, Minimal  
Chronic Active, Minimal  
Marked

Inflammation  
Infiltration Cellular  
Depletion Secretory

Suppurative, Minimal  
Lymphocyte, Mild  
Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 352	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100352

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Seminal Vesicle
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**OBSERVATIONS**

* Kidney		Developmental Malformation	
[ Developmental Malformation TGLS = 1-4 ]			
* Mammary Gland	Duct	Hyperplasia	Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild
* Rete Testes		Dilatation	Moderate
* Testes	Seminif Tub	Degeneration	Marked

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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**ANIMAL ID:** 353

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 163

**DOSE:** F1 2.0 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100353

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Coagulating Gland  
\* Seminal Vesicle

\* Epididymis  
\* Testes

\* Prostate, Dorsal/lateral Lobe

\* Rete Testes

---

**INSUFFICIENT TISSUE**

\* Mammary Gland

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**OBSERVATIONS**

\* Mammary GI

Note: No RC/WT attempt per pathologist

\* Prostate, Ventral Lobe

Infiltration Cellular

Lymphocyte, Moderate

\* Sem Ves

Note: TGL 1 - NCL

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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**ANIMAL ID:** 354

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 163

**DOSE:** F1 2.0 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100354

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Coagulating Gland

\* Epididymis

\* Mammary Gland

\* Prostate, Dorsal/lateral Lobe

\* Prostate, Ventral Lobe

\* Rete Testes

\* Seminal Vesicle

\* Testes

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 355	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100355

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Mammary Gland	* Prostate, Dorsal/lateral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	

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**OBSERVATIONS**

* Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Minimal
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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 356	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100356

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	

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**OBSERVATIONS**

* Mammary Gland	Alveolus	Hyperplasia	Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 357	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100357

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Mammary Gland	* Prostate, Dorsal/lateral Lobe	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Epididymis	Infiltration Cellular	Lymphocyte, Minimal
* Liver	Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 1-5 ]		
* Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Minimal
* Testes		
Note: TGL 2 - NCL		

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 358	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100358

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Kidney [ Cyst TGLS = 1-4 ]	Cortex	Cyst	
* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 359	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100359

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Mammary Gland	* Prostate, Dorsal/lateral Lobe	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Epididymis	Infiltration Cellular	Lymphocyte, Minimal
* Kidney	Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Mild

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 360	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100360

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Seminal Vesicle
* Testes			

---

**INSUFFICIENT TISSUE**

\* Rete Testes

---

**OBSERVATIONS**

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
* Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 1-5 ]			
* Mammary Gland	Duct	Hyperplasia	Mild
Preputial Gland		Atrophy	Mild
[ Atrophy TGLS = 2-2 ]			
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Rete Testes			

Note: No RC/WT attempt per pathologist

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 361	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100361

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Epididymis	* Kidney	* Prostate, Ventral Lobe	* Rete Testes
* Testes			

---

**OBSERVATIONS**

* Coagulating Gland [ Developmental Malformation TGLS = 2-2 ]		Developmental Malformation	
* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Prostate, Dorsal/Lateral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Seminal Vesicle [ Depletion Secretory TGLS = 1-2A ]		Depletion Secretory	Marked

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 362	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100362

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Mammary Gland	Preputial Gland
* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle	* Testes

---

**OBSERVATIONS**

* Kidney [ Cyst TGLS = 2-4 ] Preputial GI Note: TGL 1 - NCL	Cortex	Cyst	
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 363	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100363

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Kidney	* Prostate, Dorsal/lateral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	

---

**OBSERVATIONS**

* Mammary Gland	Duct	Hyperplasia	Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99920-98

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 09:38:08

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 364

TRT#: 8

SEX: Male

DAY ON TEST: 162

DOSE: F1 50 PPB

DISP: Terminal Sacrifice

HISTO: 021380100364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Coagulating Gland  
\* Spleen

\* Adrenal Medulla  
\* Epididymis  
\* Thymus

\* Bone  
\* Rete Testes  
\* Thyroid Gland

\* Bone Marrow  
\* Seminal Vesicle

OBSERVATIONS

\* Kidney  
\* Liver  
\* Mammary Gland  
Oral Mucosa  
[ Abscess TGLS = 1-9 ]  
\* Pituitary Gland  
\* Prostate, Dorsal/Lateral Lobe  
\* Prostate, Ventral Lobe  
\* Testes

Renal Tubule  
Renal Tubule  
Renal Tubule  
Alveolus  
Pars Distalis  
Seminif Tub

Dilatation  
Infiltration Cellular  
Mineralization  
Regeneration  
Inflammation  
Hyperplasia  
Abscess  
Cyst  
Inflammation  
Infiltration Cellular  
Degeneration

Minimal  
Lymphocyte, Minimal  
Mild  
Minimal  
Chronic Active, Minimal  
Mild  
Marked  
Multiple  
Suppurative, Minimal  
Lymphocyte, Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 1 - noted grossly as Cavity was Oral Mucosa

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 365

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100365

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Coagulating Gland  
\* Prostate, Dorsal/lateral Lobe  
\* Thymus

\* Adrenal Medulla  
\* Epididymis  
\* Rete Testes  
\* Thyroid Gland

\* Bone  
\* Liver  
\* Seminal Vesicle

\* Bone Marrow  
\* Pituitary Gland  
\* Testes

**OBSERVATIONS**

\* Kidney

Hyaline Droplet  
Infiltration Cellular

Minimal  
Lymphocyte, Minimal

Note: TGL 1 - NCL

\* Mammary Gland  
\* Prostate, Ventral Lobe  
\* Spleen

Duct

Hyperplasia  
Infiltration Cellular  
Pigmentation

Mild  
Lymphocyte, Mild  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 366

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100366

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Coagulating Gland  
\* Prostate, Dorsal/lateral Lobe  
\* Testes

\* Adrenal Medulla  
\* Epididymis  
\* Rete Testes  
\* Thymus

\* Bone  
\* Liver  
\* Seminal Vesicle  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland  
\* Spleen

**OBSERVATIONS**

\* Kidney  
\* Mammary Gland  
\* Prostate, Ventral Lobe

Alveolus

Infiltration Cellular  
Hyperplasia  
Infiltration Cellular

Lymphocyte, Minimal  
Moderate  
Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 367	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100367

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle	* Spleen
* Testes	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Mammary Gland	Duct	Hyperplasia	Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 368

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100368

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Pituitary Gland	Preputial Gland
* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Thyroid Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Moderate
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
		Hepatodiaphragmatic Nodule	
* Liver			
[ Hepatodiaphragmatic Nodule TGLS = 2-5 ]			
* Mammary Gland	Duct	Hyperplasia	Minimal
Preputial GI			
Note: TGL 1 - NCL			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 389

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 163

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100389

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Mammary Gland	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle
* Testes	* Thymus	* Thyroid Gland	

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 390	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100390

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Coagulating Gland
* Epididymis	* Liver	* Mammary Gland	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle	* Spleen
* Testes	* Thymus	* Thyroid Gland	

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**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 391	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100391

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Pituitary Gland	* Rete Testes
* Spleen	* Testes	* Thymus	* Thyroid Gland

---

**OBSERVATIONS**

* Kidney	Renal Tubule Interstitialium	Dilatation Fibrosis Infiltration Cellular Inflammation	Minimal Minimal Lymphocyte, Minimal Chronic Active, Minimal
* Liver		Hyperplasia	Moderate
* Mammary Gland	Alveolus	Infiltration Cellular	Lymphocyte, Mild
* Prostate, Dorsal/Lateral Lobe		Infiltration Cellular	Lymphocyte, Marked
* Prostate, Ventral Lobe		Depletion Secretory	Moderate
* Seminal Vesicle			

[ Depletion Secretory TGLS = 1-2A ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 392

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100392

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Coagulating Gland
* Epididymis	* Liver	* Mammary Gland	* Pituitary Gland
* Rete Testes	* Seminal Vesicle	* Spleen	* Testes
* Thymus	* Thyroid Gland		

**OBSERVATIONS**

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Kidney		Congestion	Mild
	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Minimal
[ Congestion TGLS = 1,2-4+4A ]			
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Minimal
* Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 393

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100393

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Coagulating Gland  
\* Prostate, Dorsal/lateral Lobe  
\* Testes

\* Adrenal Medulla  
\* Epididymis  
\* Rete Testes  
\* Thymus

\* Bone  
\* Mammary Gland  
\* Seminal Vesicle  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland  
\* Spleen

**OBSERVATIONS**

\* Kidney  
\* Liver  
\* Prostate, Ventral Lobe

Hyaline Droplet  
Inflammation  
Infiltration Cellular

Minimal  
Chronic Active, Minimal  
Lymphocyte, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 394	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100394

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Mammary Gland	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Prostate, Dorsal/Lateral Lobe	Inflammation	Suppurative, Mild
* Prostate, Ventral Lobe	Inflammation	Suppurative, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 395	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100395

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Mammary Gland	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Prostate, Dorsal/Lateral Lobe	Inflammation	Suppurative, Mild
* Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Minimal

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

**ANIMAL ID:** 396

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 163

**DOSE:** F1 2.0 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100396

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Coagulating Gland

\* Epididymis

\* Mammary Gland

\* Prostate, Dorsal/lateral Lobe

\* Prostate, Ventral Lobe

\* Rete Testes

\* Seminal Vesicle

\* Testes

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**OBSERVATIONS**

Preputial Gland

Atrophy

Moderate

Infiltration Cellular

Lymphocyte, Mild

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[ Atrophy TGLS = 1-2 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 397	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100397

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	

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**OBSERVATIONS**

* Mammary Gland	Alveolus	Hyperplasia	Mild
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 398	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100398

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Epididymis Note: TGL 2 - NCL			
* Mammary Gland	Alveolus	Hyperplasia	Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Testes Note: TGL 1 - NCL			

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 399	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100399

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Mammary Gland	* Prostate, Dorsal/lateral Lobe
* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle	* Testes

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**OBSERVATIONS**

Preputial Gland [ Inflammation TGLS = 1-2 ]	Inflammation	Suppurative, Marked
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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 400	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100400

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Mammary Gland	* Rete Testes
* Seminal Vesicle			

---

**OBSERVATIONS**

* Kidney		Hyaline Droplet	Minimal
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Testes	Seminif Tub	Degeneration	Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 401	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100401

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Minimal
* Mammary Gland	Duct	Hyperplasia	Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 402	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100402

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Ventral Lobe	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
* Mammary Gland	Alveolus	Hyperplasia	Moderate
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 403	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100403

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	

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**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Mild
* Mammary Gland	Alveolus	Hyperplasia	Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 404	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100404

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Prostate, Dorsal/lateral Lobe	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
* Mammary Gland	Duct	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLS = 2-9 ]			
Preputial Gland	Bilateral	Atrophy	Mild
[ Atrophy TGLS = 1-2 ]			
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99920-98

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 09:38:08

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 405

TRT#: 8

SEX: Male

DAY ON TEST: 163

DOSE: F1 50 PPB

DISP: Terminal Sacrifice

HISTO: 021380100405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Pituitary Gland	* Prostate, Dorsal/lateral Lobe	* Rete Testes
* Seminal Vesicle	* Spleen	* Testes	* Thymus
* Thyroid Gland			

OBSERVATIONS

* Coagulating Gland		Developmental Malformation	
[ Developmental Malformation TGLS = 1-2A ]			
* Kidney	Renal Tubule	Dilatation	Mild
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Mammary Gland	Duct	Hyperplasia	Moderate
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 406	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100406

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle	* Spleen
* Testes	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Regeneration	Minimal
* Mammary Gland	Duct	Hyperplasia	Moderate
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 407	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100407

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Thyroid Gland

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**OBSERVATIONS**

* Kidney		Hyaline Droplet	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Mammary Gland	Alveolus	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 408	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100408

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Pituitary Gland	* Prostate, Dorsal/lateral Lobe
* Rete Testes	* Seminal Vesicle	* Testes	* Thymus
* Thyroid Gland			

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Mineralization	Mild
	Renal Tubule	Regeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Mild
[ Hepatodiaphragmatic Nodule TGLS = 1-5 ]			
* Mammary Gland	Alveolus	Hyperplasia	Moderate
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Pigmentation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 409

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100409

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Mammary Gland
* Pituitary Gland	* Rete Testes	* Seminal Vesicle	* Spleen
* Testes	* Thymus	* Thyroid Gland	

**OBSERVATIONS**

* Kidney		Hyaline Droplet	Mild
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 410

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100410

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Pituitary Gland	* Prostate, Ventral Lobe
* Seminal Vesicle	* Spleen	* Testes	* Thymus
* Thyroid Gland			

**INSUFFICIENT TISSUE**

\* Rete Testes

**OBSERVATIONS**

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Mineralization	Minimal
Note: TGL 1 - NCL			
* Liver		Inflammation	Chronic Active, Minimal
* Mammary Gland	Alveolus	Hyperplasia	Moderate
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Minimal
* Rete Testes			
Note: No RC/WT attempt per pathologist			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 431	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100431

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Mammary Gland
* Pituitary Gland	* Rete Testes	* Seminal Vesicle	* Spleen
* Testes	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
Note: TGL 1 - NCL			
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 432

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100432

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Mammary Gland	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	* Thyroid Gland

**OBSERVATIONS**

* Kidney		Hyaline Droplet	Mild
* Liver		Infiltration Cellular	Lymphocyte, Minimal
Preputial Gland		Atrophy	Minimal
[ Atrophy TGLS = 1-2 ]			
* Testes			
Note: TGL 2 - NCL			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 433	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 160
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100433

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Liver	* Mammary Gland	* Pituitary Gland
* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle	* Spleen
* Testes	* Thymus		

---

**OBSERVATIONS**

* Coagulating Gland		Developmental Malformation	
* Kidney	Renal Tubule	Dilatation	Mild
	Renal Tubule	Regeneration	Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Thyroid Gland		Cyst	Squamous

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 434

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100434

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Coagulating Gland	* Epididymis	* Liver	* Mammary Gland
* Pituitary Gland	* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle
* Spleen	* Testes	* Thymus	

**OBSERVATIONS**

* Kidney		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
Preputial Gland		Atrophy	Mild
[ Atrophy TGLS = 1-2 ]			
* Prostate, Ventral Lobe		Inflammation	Suppurative, Minimal
* Thyroid Gland		Cyst	Squamous, Multiple

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 435	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100435

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Mammary Gland	* Prostate, Dorsal/lateral Lobe	* Seminal Vesicle
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**OBSERVATIONS**

* Epididymis		Atrophy	Moderate
		Hypospermia	Marked
[ Atrophy TGLS = 2-2 ]			
[ Hypospermia TGLS = 2-2 ]			
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Rete Testes		Dilatation	Mild
* Testes	Seminif Tub	Degeneration	Marked
Note: Left Testis (TGL 1) was frozen at necropsy.			
Note: TGL 1 - NST			

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 436	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100436

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Epididymis	* Mammary Gland	* Prostate, Dorsal/lateral Lobe	* Seminal Vesicle
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**OBSERVATIONS**

* Coagulating Gland [ Developmental Malformation TGLS = 3-2A ]		Developmental Malformation	
* Kidney [ Congestion TGLS = 1-4 ]	Cortex	Congestion Cyst Infiltration Cellular	Mild  Lymphocyte, Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Rete Testes [ Dilatation TGLS = 2-7B ]		Dilatation	Moderate
* Testes [ Degeneration TGLS = 2-7B ]	Seminif Tub	Degeneration	Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 437	<b>TRT#:</b> 6	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100437

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Epididymis	* Prostate, Dorsal/lateral Lobe	* Rete Testes	* Seminal Vesicle
* Testes			

---

**MISSING**

\* Coagulating Gland

---

**OBSERVATIONS**

* Coagulat GI			
Note: Recut/Re-embed attempted			
* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 438	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100438

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Epididymis	* Mammary Gland	* Seminal Vesicle
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---

**OBSERVATIONS**

* Coagulating Gland [ Developmental Malformation TGLS = 2-2A ]		Developmental Malformation	
* Kidney	Renal Tubule	Regeneration	Minimal
* Prostate, Dorsal/Lateral Lobe		Inflammation	Suppurative, Mild
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Rete Testes		Dilatation	Mild
* Testes [ Degeneration TGLS = 1-7B ]	Seminif Tub	Degeneration	Marked

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 439	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100439

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Coagulating Gland	* Epididymis	* Rete Testes	* Seminal Vesicle
* Testes			

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation Infiltration Cellular	Minimal Lymphocyte, Minimal
[ Dilatation TGLS = 1-4 ]			
* Mammary Gland	Alveolus	Hyperplasia Infiltration Cellular	Minimal Lymphocyte, Minimal
* Prostate, Dorsal/Lateral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 440	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 160
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100440

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Coagulating Gland	* Epididymis	* Mammary Gland	* Rete Testes
* Seminal Vesicle	* Testes		

---

**OBSERVATIONS**

* Kidney	Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Dorsal/Lateral Lobe	Infiltration Cellular	Lymphocyte, Minimal
* Prostate, Ventral Lobe	Infiltration Cellular	Lymphocyte, Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 441	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100441

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Mammary Gland	* Pituitary Gland	* Prostate, Dorsal/lateral Lobe
* Prostate, Ventral Lobe	* Rete Testes	* Seminal Vesicle	* Testes
* Thymus			

---

**OBSERVATIONS**

* Coagulating Gland		Developmental Malformation	
[ Developmental Malformation TGLS = 1-2A ]			
* Kidney	Cortex	Cyst	
	Renal Tubule	Dilatation	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
	Renal Tubule	Regeneration	Minimal
[ Cyst TGLS = 2-4 ]			
* Liver		Vacuolization Cytoplasmic	Minimal
* Spleen		Pigmentation	Minimal
* Thyroid Gland		Cyst	Squamous, Multiple

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 442

**TRT#:** 8

**SEX:** Male

**DAY ON TEST:** 162

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100442

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Epididymis  
\* Rete Testes  
\* Thymus

\* Adrenal Medulla  
\* Mammary Gland  
\* Seminal Vesicle  
\* Thyroid Gland

\* Bone  
\* Pituitary Gland  
\* Spleen

\* Bone Marrow  
\* Prostate, Dorsal/lateral Lobe  
\* Testes

**OBSERVATIONS**

\* Coagulating Gland

[ Developmental Malformation TGLS = 1-2A ]

Developmental Malformation

\* Kidney

Hyaline Droplet

Minimal

\* Liver

Inflammation

Chronic Active, Minimal

\* Prostate, Ventral Lobe

Infiltration Cellular

Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 443	<b>TRT#:</b> 8	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100443

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Pituitary Gland	* Prostate, Dorsal/lateral Lobe	* Rete Testes
* Seminal Vesicle	* Testes	* Thymus	* Thyroid Gland

---

**OBSERVATIONS**

* Coagulating Gland		Developmental Malformation	
[ Developmental Malformation TGLS = 2-2A ]			
* Kidney	Renal Tubule	Dilatation	Moderate
	Renal Tubule	Infiltration Cellular	Lymphocyte, Minimal
		Regeneration	Minimal
[ Dilatation TGLS = 3-4 ]			
* Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 1-5 ]			
* Mammary Gland	Duct	Hyperplasia	Minimal
* Prostate, Ventral Lobe		Infiltration Cellular	Lymphocyte, Minimal
* Spleen		Pigmentation	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 244

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100244

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule

Mineralization  
Proestrus  
Proestrus  
Proestrus

Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 245

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100245

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Mammary Gland  
\* Thymus

\* Adrenal Medulla  
\* Oviduct  
\* Thyroid Gland

\* Bone  
\* Pituitary Gland

\* Bone Marrow  
\* Spleen

**OBSERVATIONS**

\* Kidney  
\* Liver  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule

Mineralization  
Inflammation  
Diestrus  
Diestrus  
Diestrus

Mild  
Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 246

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100246

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule

Mineralization  
Estrus  
Estrus  
Metestrus

Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

**ANIMAL ID:** 247

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100247

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

---

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule

Mineralization  
Estrus  
Estrus  
Estrus

Moderate

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 248

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 160

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100248

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Kidney  
\* Spleen

\* Adrenal Medulla  
\* Liver  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Mammary Gland  
\* Ovary  
\* Uterus  
\* Vagina

Alveolus

Hyperplasia  
Proestrus  
Proestrus  
Proestrus

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 249	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100249

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney \* Oviduct

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**OBSERVATIONS**

* Clitoral Gland		Distended	
		Inflammation	Chronic Active, Moderate
[ Inflammation TGLS = 1-9 ]			
* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Ovary		Metestrus	
* Uterus		Metestrus	
* Vagina		Metestrus	

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98

**Test Type:** SPECIAL STUDY

**Route:** DOSED FEED

**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014

**Time Report Requested:** 09:38:08

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

**Lab:** NCTR

---

**ANIMAL ID:** 250

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 2.0 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100250

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Mammary Gland

\* Oviduct

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Ovary		Proestrus	
* Uterus		Proestrus	
Note: TGL 1 - NCL			
Note: TGL 1 is normal proestrus			
* Vagina		Proestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 251	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100251

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 252	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100252

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Proestrus	
* Uterus		Proestrus	
* Vagina		Proestrus	

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 253	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100253

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Ovary		Metestrus	
* Uterus		Metestrus	
* Vagina		Metestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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<b>ANIMAL ID:</b> 254	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100254

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98

**Test Type:** SPECIAL STUDY

**Route:** DOSED FEED

**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014

**Time Report Requested:** 09:38:08

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

**Lab:** NCTR

---

**ANIMAL ID:** 255

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 10 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100255

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Mammary Gland

\* Oviduct

---

**OBSERVATIONS**

\* Kidney

Renal Tubule

Mineralization

Mild

\* Ovary

Proestrus

\* Uterus

Proestrus

\* Vagina

Proestrus

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 257	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100257

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
-----------------	-----------

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
		Nephropathy	Minimal
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 258	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100258

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
-----------------	-----------

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Proestrus	
* Uterus		Proestrus	
Note: TGL 1 - NCL			
Note: TGL 1 is normal proestrus			
* Vagina		Proestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 259

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100259

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Thymus

\* Adrenal Medulla  
\* Oviduct  
\* Thyroid Gland

\* Bone  
\* Pituitary Gland

\* Bone Marrow  
\* Spleen

**OBSERVATIONS**

\* Kidney  
  
\* Mammary Gland  
\* Ovary  
\* Uterus  
\* Vagina

Cortex  
Renal Tubule  
Alveolus

Cyst  
Mineralization  
Hyperplasia  
Proestrus  
Proestrus  
Proestrus

Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 260

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 160

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100260

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Thymus

\* Adrenal Medulla  
\* Oviduct  
\* Thyroid Gland

\* Bone  
\* Pituitary Gland

\* Bone Marrow  
\* Spleen

**OBSERVATIONS**

\* Kidney  
\* Mammary Gland  
\* Ovary  
\* Uterus  
\* Vagina

Cortex  
Renal Tubule  
Alveolus

Cyst  
Mineralization  
Hyperplasia  
Hyperplasia  
Metestrus  
Metestrus  
Metestrus

Minimal  
Minimal  
Sertoliform, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 261

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 160

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100261

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Uterus  
    Note: TGL 1 - NCL  
    Note: TGL 1 is normal proestrus  
\* Vagina  
    Note: early

Cortex  
Renal Tubule

Cyst  
Mineralization  
Proestrus  
Proestrus

Minimal

Estrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 262

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 160

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100262

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Thymus

\* Adrenal Medulla  
\* Oviduct  
\* Thyroid Gland

\* Bone  
\* Pituitary Gland

\* Bone Marrow  
\* Spleen

**OBSERVATIONS**

\* Kidney  
\* Mammary Gland  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule  
Alveolus

Mineralization  
Hyperplasia  
Diestrus  
Diestrus  
Diestrus

Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 263

**TRT#:** 4  
**DOSE:** F1 50 PPB

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 160  
**HISTO:** 021380100263

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Kidney	* Mammary Gland	* Oviduct	* Pituitary Gland
* Spleen	* Thymus	* Thyroid Gland	

**OBSERVATIONS**

* Liver	Basophilic Focus	Multiple
	Developmental Malformation	
	Inflammation	Chronic Active, Minimal
[ Developmental Malformation TGLS = 1-5A ]		
* Ovary	Metestrus	
Note: Transitional to Diestrus		
* Uterus	Metestrus	
Note: Transitional to Diestrus		
* Vagina	Metestrus	
Note: Transitional to Diestrus		

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

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**ANIMAL ID:** 285

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100285

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

---

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule

Mineralization  
Diestrus  
Diestrus  
Diestrus

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 286

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100286

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule

Mineralization  
Diestrus  
Diestrus  
Diestrus

Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 287

**TRT#:** 1  
**DOSE:** F1 CONTROL

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 161  
**HISTO:** 021380100287

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 288

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100288

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
    Note: Transitional to Diestrus  
\* Uterus  
\* Vagina

Renal Tubule

Mineralization  
Metestrus

Moderate

Metestrus  
Metestrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**ANIMAL ID:** 289

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 160

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100289

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Mammary Gland  
\* Thymus

\* Adrenal Medulla  
\* Oviduct  
\* Thyroid Gland

\* Bone  
\* Pituitary Gland

\* Bone Marrow  
\* Spleen

**OBSERVATIONS**

\* Kidney                      Renal Tubule  
\* Liver  
    [ Developmental Malformation TGLS = 1-5 ]  
\* Ovary  
\* Uterus  
\* Vagina

Mineralization  
Developmental Malformation

Minimal

Diestrus  
Diestrus  
Diestrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 09:38:08  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

---

<b>ANIMAL ID:</b> 290	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100290

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Oviduct

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**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Moderate
* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Ovary		Metestrus	
* Uterus		Metestrus	
* Vagina		Metestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 291	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100291

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 292	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100292

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Oviduct

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Ovary		Proestrus	
* Uterus		Proestrus	
Note: TGI 1 is normal proestrus			
Note: TGL 1 - NCL			
* Vagina		Estrus	

---

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 293	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100293

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

* Kidney	Cortex	Cyst	
	Renal Tubule	Mineralization	Minimal
* Ovary		Proestrus	
* Uterus		Proestrus	
* Vagina		Proestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 294	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100294

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
-----------------	-----------

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Proestrus	
* Uterus		Proestrus	
* Vagina		Proestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 295	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100295

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
-----------------	-----------

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Estrus	
* Uterus		Estrus	
* Vagina		Estrus	

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 296	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100296

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Ovary		Estrus	
* Uterus		Estrus	
* Vagina		Estrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 297	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100297

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
-----------------	-----------

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Estrus	
* Uterus		Estrus	
* Vagina		Estrus	

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 298	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100298

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Oviduct

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Mammary Gland	Alveolus	Hyperplasia	Mild
* Ovary		Metestrus	
* Uterus		Metestrus	
* Vagina		Metestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 299	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100299

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
-----------------	-----------

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Estrus	
* Uterus		Estrus	
* Vagina		Metestrus	

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

**ANIMAL ID:** 300

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100300

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

---

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule

Mineralization  
Diestrus  
Diestrus  
Diestrus

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99920-98

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 09:38:09

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 161

DOSE: F1 50 PPB

DISP: Terminal Sacrifice

HISTO: 021380100301

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Thymus

\* Adrenal Medulla  
\* Mammary Gland  
\* Thyroid Gland

\* Bone  
\* Oviduct

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Moderate
* Ovary	Corpus Luteum	Cyst	
		Diestrus	
* Spleen		Pigmentation	Mild
* Uterus		Diestrus	
* Vagina		Diestrus	

PRIMARY CAUSE OF DEATH

-

Animal Note: This animal not cycling normally, probably a prolonged cycle.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 302

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100302

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Thyroid Gland  
\* Uterus  
    Note: TGL 1 - NCL  
    Note: TGL 1 is normal proestrus  
\* Vagina

Renal Tubule

Mineralization  
Proestrus  
Ultimobranchial Cyst  
Proestrus

Minimal

Proestrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 303

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100303

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Kidney  
\* Pituitary Gland

\* Adrenal Medulla  
\* Liver  
\* Spleen

\* Bone  
\* Mammary Gland  
\* Thymus

\* Bone Marrow  
\* Oviduct  
\* Thyroid Gland

**OBSERVATIONS**

\* Ovary

Rete Ovarii

Diestrus  
Dilatation  
Diestrus  
Diestrus

Mild

\* Uterus

\* Vagina

Note: Transitional to Proestrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 304

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 160

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100304

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Thymus

\* Adrenal Medulla  
\* Mammary Gland  
\* Thyroid Gland

\* Bone  
\* Oviduct

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Spleen  
\* Uterus  
    Note: TGL 1 - NCL  
    Note: TGL 1 is normal proestrus  
\* Vagina

Renal Tubule

Mineralization  
Proestrus  
Pigmentation  
Proestrus

Minimal  
  
Minimal

Estrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 327

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100327

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Kidney  
\* Spleen

\* Adrenal Medulla  
\* Liver  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**MISSING**

\* Vagina

**OBSERVATIONS**

\* Mammary Gland  
\* Ovary  
\* Uterus  
\* Vagina

Alveolus

Hyperplasia  
Metestrus  
Metestrus

Minimal

Note: Wet Tissue Attempted

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 328

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100328

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Oviduct  
\* Thyroid Gland

\* Adrenal Medulla  
\* Pituitary Gland

\* Bone  
\* Spleen

\* Bone Marrow  
\* Thymus

**OBSERVATIONS**

\* Kidney  
\* Liver  
\* Mammary Gland  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule  
Alveolus

Mineralization  
Inflammation  
Hyperplasia  
Metestrus  
Metestrus  
Metestrus

Mild  
Chronic Active, Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 329

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100329

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Thyroid Gland

\* Adrenal Medulla  
\* Oviduct

\* Bone  
\* Pituitary Gland

\* Bone Marrow  
\* Thymus

**OBSERVATIONS**

\* Kidney  
\* Mammary Gland  
\* Ovary  
\* Spleen  
\* Uterus  
\* Vagina

Renal Tubule  
Alveolus

Mineralization  
Hyperplasia  
Proestrus  
Pigmentation  
Proestrus  
Estrus

Minimal  
Mild  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 330

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100330

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Thymus

\* Adrenal Medulla  
\* Oviduct

\* Bone  
\* Pituitary Gland

\* Bone Marrow  
\* Spleen

**OBSERVATIONS**

\* Kidney  
\* Mammary Gland  
\* Ovary  
\* Thyroid Gland  
\* Uterus  
\* Vagina

Renal Tubule  
Alveolus

Mineralization  
Hyperplasia  
Estrus  
Ultimobranchial Cyst  
Estrus  
Estrus

Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99920-98

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
CAS Number: 57-63-6

Date Report Requested: 10/23/2014

Time Report Requested: 09:38:09

First Dose M/F: NA / NA

Lab: NCTR

ANIMAL ID: 331

TRT#: 2

SEX: Female

DAY ON TEST: 162

DOSE: F1 2.0 PPB

DISP: Terminal Sacrifice

HISTO: 021380100331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Mammary Gland

\* Oviduct

OBSERVATIONS

\* Kidney

Pelvis

Dilatation

Marked

Renal Tubule

Mineralization

Minimal

[ Dilatation TGLS = 2-4 ]

\* Ovary

Proestrus

\* Uterus

Proestrus

Note: TGL 1 is normal proestrus

Note: TGL 1 - NCL

\* Vagina

Proestrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 332	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100332

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Kidney	* Mammary Gland	* Oviduct
----------	-----------------	-----------

---

**OBSERVATIONS**

* Clitoral Gland		Distended	
		Inflammation	Chronic Active, Moderate
[ Inflammation TGLS = 1-9 ]			
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98

**Test Type:** SPECIAL STUDY

**Route:** DOSED FEED

**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/23/2014

**Time Report Requested:** 09:38:09

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

**Lab:** NCTR

**ANIMAL ID:** 333

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 2.0 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100333

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Kidney

\* Oviduct

**OBSERVATIONS**

\* Mammary Gland

Alveolus

Hyperplasia

Mild

\* Ovary

Diestrus

\* Uterus

Diestrus

\* Vagina

Diestrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 335	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100335

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
-----------------	-----------

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Marked
* Ovary		Proestrus	
* Uterus		Proestrus	
Note: TGL 1 - NCL			
Note: TGL 1 is normal proestrus			
* Vagina		Estrus	

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 336	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100336

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
-----------------	-----------

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Marked
* Ovary		Metestrus	
* Uterus		Estrus	
* Vagina		Metestrus	

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

**ANIMAL ID:** 338

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 10 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100338

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Oviduct

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Ovary		Proestrus	
* Uterus		Proestrus	
Note: TGL 1 - NCL			
Note: TGL 1 is normal proestrus			
* Vagina		Proestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 340	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100340

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Oviduct

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Ovary		Proestrus	
* Uterus		Proestrus	
* Vagina		Proestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 341	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100341

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Kidney	* Mammary Gland	* Oviduct
----------	-----------------	-----------

---

**OBSERVATIONS**

* Ovary	Metestrus
* Uterus	Metestrus
* Vagina	Metestrus

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 342	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100342

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Liver	* Mammary Gland	* Oviduct	* Pituitary Gland
* Spleen	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 343

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100343

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
    Note: Transitional to Proestrus  
\* Uterus  
\* Vagina  
    Note: Transitional to Proestrus

Cortex  
Renal Tubule

Cyst  
Mineralization  
Diestrus  
  
Diestrus  
Diestrus

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 344	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100344

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Liver	* Mammary Gland	* Oviduct	* Pituitary Gland
* Spleen	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 345	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100345

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Liver	* Mammary Gland	* Oviduct	* Pituitary Gland
* Spleen	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Estrus	
* Uterus		Estrus	
* Vagina		Estrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 346

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100346

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Kidney  
\* Pituitary Gland

\* Adrenal Medulla  
\* Liver  
\* Spleen

\* Bone  
\* Mammary Gland  
\* Thymus

\* Bone Marrow  
\* Oviduct  
\* Thyroid Gland

**OBSERVATIONS**

\* Ovary  
\* Uterus  
\* Vagina

Diestrus  
Diestrus  
Diestrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 369

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100369

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
  
\* Ovary  
\* Uterus  
\* Vagina

Pelvis  
Renal Tubule

Dilatation  
Mineralization  
Estrus  
Estrus  
Estrus

Moderate  
Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 370

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 159

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100370

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule

Mineralization  
Proestrus  
Proestrus  
Proestrus

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

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<b>ANIMAL ID:</b> 371	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100371

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Mammary Gland	* Oviduct	* Pituitary Gland	* Spleen
* Thymus	* Thyroid Gland		

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Moderate
* Liver		Inflammation	Chronic Active, Minimal
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 372

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100372

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Thymus

\* Adrenal Medulla  
\* Mammary Gland  
\* Thyroid Gland

\* Bone  
\* Oviduct

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Moderate
* Ovary		Diestrus	
* Spleen		Pigmentation	Minimal
* Uterus		Diestrus	
* Vagina		Diestrus	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 373

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100373

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule

Mineralization  
Metestrus  
Metestrus  
Metestrus

Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 374	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100374

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Oviduct

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**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 375	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100375

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

* Kidney	Cortex	Cyst	
	Renal Tubule	Mineralization	Marked
* Ovary		Metestrus	
* Uterus		Metestrus	
* Vagina		Metestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 376	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 163
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100376

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
-----------------	-----------

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Ovary		Metestrus	
* Uterus		Metestrus	
* Vagina		Metestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 377	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100377

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Ovary		Metestrus	
* Uterus		Metestrus	
* Vagina		Metestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 379

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 10 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100379

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Oviduct

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Moderate
* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Ovary		Cyst	
		Metestrus	
[ Cyst TGLS = 1-1 ]			
* Uterus		Metestrus	
* Vagina		Metestrus	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 380	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100380

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Ovary		Estrus	
* Uterus		Estrus	
* Vagina		Estrus	

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 381	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100381

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 382	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100382

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
-----------------	-----------

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Moderate
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 384

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100384

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
  
\* Uterus  
    Note: TGL 1 - NCL  
    Note: TGL 1 is normal proestrus  
\* Vagina

Renal Tubule

Mineralization  
Hyperplasia  
Proestrus  
Proestrus

Minimal  
Sertoliform, Minimal

Estrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 385	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100385

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Liver	* Oviduct	* Pituitary Gland	* Spleen
* Thymus	* Thyroid Gland		

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Mammary Gland	Alveolus	Hyperplasia	Mild
* Ovary		Hyperplasia	Sertoliform, Mild
		Metestrus	
* Uterus		Metestrus	
* Vagina		Metestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 386	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100386

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Liver	* Mammary Gland	* Oviduct	* Pituitary Gland
* Spleen	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

Eye	Bilateral	Cataract	
[ Cataract TGLS = 1-9 ]			
* Kidney	Renal Tubule	Mineralization	Mild
* Ovary		Proestrus	
* Uterus		Proestrus	
* Vagina		Proestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 387	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100387

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Liver
* Mammary Gland	* Oviduct	* Pituitary Gland	* Spleen
* Thymus	* Thyroid Gland		

---

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney	Cortex	Cyst	
* Ovary		Diestrus	
* Uterus		Diestrus	
* Vagina		Diestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 388	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100388

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Kidney	* Liver	* Oviduct	* Pituitary Gland
* Spleen	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Mammary Gland	Alveolus	Hyperplasia	Minimal
* Ovary		Estrus	
* Uterus		Estrus	
* Vagina		Estrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 411	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100411

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Kidney	* Mammary Gland	* Oviduct	* Pituitary Gland
* Spleen	* Thymus		

---

**OBSERVATIONS**

* Liver		Inflammation	Chronic Active, Minimal
* Ovary	Corpus Luteum	Cyst	
	Follicle	Cyst	
		Diestrus	
* Thyroid Gland		Ultimobranchial Cyst	
* Uterus		Diestrus	
Note: Transitional from Metestrus			
* Vagina		Diestrus	
Note: Transitional from Metestrus			

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 412	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100412

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Mammary Gland	* Oviduct	* Pituitary Gland	* Spleen
* Thymus	* Thyroid Gland		

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Moderate
* Liver		Inflammation	Chronic Active, Minimal
* Ovary		Proestrus	
* Uterus		Proestrus	
* Vagina		Proestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 413	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100413

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Liver	* Mammary Gland	* Oviduct	* Pituitary Gland
* Spleen	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Clitoral Gland		Distended Inflammation	Chronic Active, Mild
[ Inflammation TGLS = 1-9 ]			
* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary Note: Transitional from Diestrus		Proestrus	
* Uterus Note: Transitional from Diestrus		Proestrus	
* Vagina Note: early		Proestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 414	<b>TRT#:</b> 1	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100414

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Liver	* Mammary Gland	* Oviduct	* Pituitary Gland
* Spleen	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Metestrus	
* Uterus		Metestrus	
* Vagina		Diestrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 415

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100415

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Uterus  
    Note: TGL 1 - NCL  
    Note: TGL 1 is normal proestrus  
\* Vagina

Renal Tubule

Mineralization  
Proestrus  
Proestrus

Minimal

Proestrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

**ANIMAL ID:** 416

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 021380100416

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Adrenal Cortex  
\* Kidney  
\* Pituitary Gland

\* Adrenal Medulla  
\* Liver  
\* Spleen

\* Bone  
\* Mammary Gland  
\* Thymus

\* Bone Marrow  
\* Oviduct  
\* Thyroid Gland

---

**OBSERVATIONS**

\* Ovary  
\* Uterus  
\* Vagina

Diestrus  
Diestrus  
Diestrus

---

PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

**ANIMAL ID:** 417

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 163

**DOSE:** F1 2.0 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100417

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

\* Mammary Gland

\* Oviduct

---

**OBSERVATIONS**

\* Ovary

Proestrus

\* Thyroid Gland

Ectopic Thymus

[ Ectopic Thymus TGLS = 2-3 ]

\* Uterus

Proestrus

Note: TGL 1 is normal proestrus

Note: TGL 1 - NCL

\* Vagina

Proestrus

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

**ANIMAL ID:** 418

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 163

**DOSE:** F1 2.0 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100418

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Mammary Gland

\* Oviduct

---

**OBSERVATIONS**

\* Kidney

Infarct

\* Ovary

Diestrus

\* Uterus

Diestrus

\* Vagina

Diestrus

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 420	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 2.0 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100420

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Ovary		Estrus	
* Uterus		Estrus	
* Vagina		Estrus	

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 421	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100421

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Metestrus	
* Uterus		Metestrus	
* Vagina		Metestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

**ANIMAL ID:** 422

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 10 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100422

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

\* Mammary Gland

\* Oviduct

---

**OBSERVATIONS**

\* Ovary

Proestrus

\* Uterus

Proestrus

\* Vagina

Proestrus

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 423	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100423

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Kidney	* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

Eye	Cornea	Edema
Note: Processing artifacts preclude diagnosis [ Edema TGLS = 1-9 ]		
* Ovary		Metestrus
* Uterus		Metestrus
* Vagina		Metestrus

---

PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 425	<b>TRT#:</b> 3	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 160
	<b>DOSE:</b> F1 10 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100425

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Mammary Gland	* Oviduct
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---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Mild
* Ovary		Metestrus	
* Uterus		Metestrus	
* Vagina		Metestrus	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 426

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100426

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Kidney  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Clitoral Gland  
[ Cyst TGLS = 2-9 ]

\* Liver  
[ Developmental Malformation TGLS = 1-5 ]

\* Ovary  
\* Uterus  
\* Vagina

Cyst  
Developmental Malformation  
Diestrus  
Diestrus  
Diestrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

---

<b>ANIMAL ID:</b> 427	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 162
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100427

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Liver	* Mammary Gland	* Oviduct	* Pituitary Gland
* Spleen	* Thymus	* Thyroid Gland	

---

**OBSERVATIONS**

* Kidney	Renal Tubule	Mineralization	Minimal
* Ovary		Estrus	
* Uterus		Estrus	
* Vagina		Estrus	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 428

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 162

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100428

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Kidney  
\* Pituitary Gland

\* Adrenal Medulla  
\* Liver  
\* Spleen

\* Bone  
\* Mammary Gland  
\* Thymus

\* Bone Marrow  
\* Oviduct  
\* Thyroid Gland

**OBSERVATIONS**

\* Ovary

Cyst

Diestrus

\* Uterus

Diestrus

\* Vagina

Diestrus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

**ANIMAL ID:** 429

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 161

**DOSE:** F1 50 PPB

**DISP:** Terminal Sacrifice

**HISTO:** 021380100429

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Liver  
\* Spleen

\* Adrenal Medulla  
\* Mammary Gland  
\* Thymus

\* Bone  
\* Oviduct  
\* Thyroid Gland

\* Bone Marrow  
\* Pituitary Gland

**OBSERVATIONS**

\* Kidney  
\* Ovary  
\* Uterus  
\* Vagina

Renal Tubule

Mineralization  
Proestrus  
Proestrus  
Proestrus

Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99920-98  
**Test Type:** SPECIAL STUDY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/CD

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** ENDOCRINE DISRUPTOR(Ethinyl Estradiol)  
**CAS Number:** 57-63-6

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

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<b>ANIMAL ID:</b> 430	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 161
	<b>DOSE:</b> F1 50 PPB	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 021380100430

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Liver	* Mammary Gland	* Oviduct	* Pituitary Gland
* Spleen	* Thymus	* Thyroid Gland	

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**OBSERVATIONS**

* Kidney	Cortex	Cyst
* Ovary		Proestrus
* Uterus		Proestrus
* Vagina		Proestrus

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PRIMARY CAUSE OF DEATH

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