

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

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

Experiment Number: 99930-99

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/22/2014

Time Report Requested: 14:12:24

First Dose M/F: NA / NA

Lab: NCTR

| | | | |
|---------------------|-----------------------|----------------------------|---------------------------|
| ANIMAL ID: 1 | TRT#: 5 | SEX: Male | DAY ON TEST: 81 |
| | DOSE: F0 0 PPM | DISP: Natural Death | HISTO: 21320100001 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------|-----------------|-------|-------------------|
| Blood Vessel | Bone, Femur | Heart | Parathyroid Gland |
| Rete Testes | Salivary Glands | Skin | |

AUTO PRECLUDES DIAG.

| | | | |
|------------------------|---------------------------|------------------------|--------------------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Brain |
| Coagulating Gland | Epididymis | Esophagus | Intestine Large, Cecum |
| Intestine Large, Colon | Intestine Small, Duodenum | Intestine Small, Ileum | Intestine Small, Jejunum |
| Kidney | Liver | Lung | Lymph Node, Mandibular |
| Lymph Node, Mesenteric | Mammary Gland | Nose | Pancreas |
| Pituitary Gland | Preputial Gland | Prostate | Prostate, Dorsal Lobe |
| Prostate, Ventral Lobe | Seminal Vesicle | Spleen | Thymus |
| Thyroid Gland | Trachea | | |

OBSERVATIONS

| | |
|--------|-----------|
| Testes | Autolysis |
|--------|-----------|

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: COD...UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 46 | TRT#: 5 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100046 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------------|------------------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate | Prostate, Dorsal Lobe | Prostate, Ventral Lobe | Rete Testes |
| Seminal Vesicle | Skin | Testes | Thymus |
| Thyroid Gland | | | |

OBSERVATIONS

| | | | |
|--------|--------------|----------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 47 | TRT#: 5 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100047 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate, Ventral Lobe | Skin | Spleen | Testes |
| Thymus | Thyroid Gland | | |

MISSING

Rete Testes

OBSERVATIONS

| | | | |
|---|--------------|---|-----------------------------|
| Kidney | Renal Tubule | Dilatation Inflammation | Mild Chronic, Mild |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Hepatodiaphragmatic Nodule Inflammation Vacuolization Cytoplasmic | Chronic, Minimal Minimal |
| [Hepatodiaphragmatic Nodule TGLS = 1-5] | | | |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Seminal Vesicle | | Dilatation | Mild |
| [Dilatation TGLS = 2-6.1] | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 48 | TRT#: 5 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100048 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------|-----------------|-------------------|-----------------|
| Bone Marrow | Bone, Femur | Coagulating Gland | Epididymis |
| Mammary Gland | Pituitary Gland | Rete Testes | Seminal Vesicle |
| Skin | Spleen | Testes | Thymus |
| Thyroid Gland | | | |

MISSING

| | | | |
|------------------------|-----------------|----------|-----------------------|
| Adrenal Cortex | Adrenal Medulla | Prostate | Prostate, Dorsal Lobe |
| Prostate, Ventral Lobe | | | |

OBSERVATIONS

| | | | |
|--------|--------------|---------------|------------------|
| Kidney | | Casts Protein | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 49 | TRT#: 5 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100049 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Pituitary Gland | Prostate, Dorsal Lobe | Seminal Vesicle |
| Skin | Thymus | Thyroid Gland | |

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

| | | | |
|---|--------------|---------------------------|------------------|
| Epididymis | | Hypospermia | Mild |
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Rete Testes | | Dilatation | Mild |
| Sem Ves | | | |
| Note: TGL # 02 - NO MICROSCOPIC CORRELATE | | | |
| Spleen | | Pigmentation | Minimal |
| Testes | Seminif Tub | Degeneration | Marked |
| Note: [Degen TGLs = 1-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 50 | TRT#: 5 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100050 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate, Dorsal Lobe | Rete Testes | Skin | Spleen |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|------------------------|--------------|---------------------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Vacuolization Cytoplasmic | Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |
| Seminal Vesicle | Epithelium | Degeneration | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 51 | TRT#: 6 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100051 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------------------|-------------|--------|
| Coagulating Gland | Prostate, Ventral Lobe | Rete Testes | Testes |
|-------------------|------------------------|-------------|--------|

INSUFFICIENT TISSUE

Seminal Vesicle

OBSERVATIONS

| | | | |
|-----------------------|----------|-----------------------|---------------------|
| Epididymis | | Infiltration Cellular | Lymphocyte, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 52 | TRT#: 7 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100052 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|------------------------|--------------|---------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |
|------------------------|--------------|---------------|

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 53 | TRT#: 6 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100053 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
|------------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 54 | TRT#: 6 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100054 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|-----------------------|-------------|
| Coagulating Gland | Epididymis | Prostate, Dorsal Lobe | Rete Testes |
| Seminal Vesicle | Testes | | |

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
|------------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 55 | TRT#: 7 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100055 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
|------------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 56 | TRT#: 8 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100056 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Prostate, Dorsal Lobe | Rete Testes |
| Seminal Vesicle | Skin | Spleen | Testes |
| Thymus | Thyroid Gland | | |

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Eye

Note: TGL # 02 - NO MICROSCOPIC CORRELATE

| | | | |
|-----------------------------|---------------|--------------|------------------|
| Kidney | Renal Tubule | Dilatation | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Malformation | |
| [Malformation TGLS = 1-5] | | | |
| Pituitary Gland | Pars Distalis | Cyst | Multiple |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 57 | TRT#: 6 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100057 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|------------------------|-------------|
| Coagulating Gland | Epididymis | Prostate, Ventral Lobe | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | | |
|-----------------------|----------|--------------|-------------------|
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |
| | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 58 | TRT#: 6 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100058 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | |
|------------------------|--------------|-------------------|
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 59 | TRT#: 8 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100059 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate, Ventral Lobe | Rete Testes | Skin | Spleen |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | |
|-----------------------|---------------------------|-----------------------|
| Kidney | Inflammation | Chronic, Minimal |
| Liver | Inflammation | Chronic, Minimal |
| | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Moderate |
| Seminal Vesicle | Dilatation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 60 | TRT#: 8 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100060 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------|---------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Kidney | Liver |
| Pituitary Gland | Rete Testes | Seminal Vesicle | Skin |
| Spleen | Testes | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|------------------------|----------|--------------|----------------------|
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 61 | TRT#: 6 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100061 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|------------------------|---------------|-----------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate |
| Prostate, Dorsal Lobe | Prostate, Ventral Lobe | Rete Testes | Seminal Vesicle |
| Testes | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 62 | TRT#: 7 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100062 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
|------------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 63 | TRT#: 7 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100063 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
|------------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH -

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 64 | TRT#: 6 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100064 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------|---------------|-----------------------|-------------|
| Epididymis | Mammary Gland | Prostate, Dorsal Lobe | Rete Testes |
| Testes | | | |

MISSING

| | |
|-------------------|-----------------|
| Coagulating Gland | Seminal Vesicle |
|-------------------|-----------------|

OBSERVATIONS

| | | |
|------------------------|--------------|---------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |
|------------------------|--------------|---------------|

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 65 | TRT#: 7 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100065 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | | | |

OBSERVATIONS

| | | | |
|------------------------|-------------|--------------|------------------|
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Testes | Seminif Tub | Degeneration | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 66 | TRT#: 8 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100066 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Kidney | Liver |
| Mammary Gland | Pituitary Gland | Rete Testes | Seminal Vesicle |
| Skin | Spleen | Testes | Thymus |
| Thyroid Gland | | | |

OBSERVATIONS

| | | |
|------------------------|--------------|-------------------|
| Prostate, Dorsal Lobe | Inflammation | Chronic, Mild |
| | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | Inflammation | Suppurative, Mild |
| | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 67 | TRT#: 8 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100067 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------|---------------|-----------------|-------------------|
| Adrenal Medulla | Bone Marrow | Bone, Femur | Coagulating Gland |
| Epididymis | Mammary Gland | Pituitary Gland | Rete Testes |
| Seminal Vesicle | Skin | Spleen | Testes |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | | |
|------------------------|--------------|-----------------------------------|----------------------|
| Adrenal Cortex | | Accessory Adrenal Cortical Nodule | |
| Kidney | Renal Tubule | Dilatation | Minimal |
| | | Inflammation | Chronic, Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 68 | TRT#: 7 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100068 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------|-----------------|-----------------------|
| Coagulating Gland | Epididymis | Prostate | Prostate, Dorsal Lobe |
| Prostate, Ventral Lobe | Rete Testes | Seminal Vesicle | Testes |

OBSERVATIONS

| | | | |
|---------------|----------|-------------|------|
| Mammary Gland | Alveolus | Hyperplasia | Mild |
|---------------|----------|-------------|------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 69 | TRT#: 8 | SEX: Male | DAY ON TEST: 139 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100069 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Rete Testes | Seminal Vesicle | Skin | Spleen |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|------------------------|--------------|---------------------------|----------------------|
| Kidney | Renal Tubule | Dilatation | Minimal |
| | | Inflammation | Chronic, Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 96 | TRT#: 7 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100096 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|-------------------|-------------|
| Coagulating Gland | Epididymis | Parathyroid Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | |
|------------------------|--------------|----------------------|
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 97 | TRT#: 6 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100097 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|-----------------------------|--------------|------------------|
| Liver | Malformation | |
| [Malformation TGLS = 1-5] | | |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 98 | TRT#: 6 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100098 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------|-----------------|-----------------------|
| Coagulating Gland | Epididymis | Prostate | Prostate, Dorsal Lobe |
| Prostate, Ventral Lobe | Rete Testes | Seminal Vesicle | Testes |

OBSERVATIONS

| | | | |
|-----------------------------|----------|--------------|---------|
| Liver | | Malformation | |
| [Malformation TGLS = 1-5] | | | |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 99 | TRT#: 6 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100099 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | |
|------------------------|--------------|----------------------|
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | Inflammation | Suppurative, Mild |
| | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 100 | TRT#: 6 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100100 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|------------------------|---------------|----------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate |
| Prostate, Dorsal Lobe | Prostate, Ventral Lobe | Rete Testes | Testes |

OBSERVATIONS

| | |
|---|----------------------------|
| Liver | Hepatodiaphragmatic Nodule |
| [Hepatodiaphragmatic Nodule TGLS = 1-5] | |
| Seminal Vesicle | Malformation |
| [Malformation TGLS = 2-6.2] | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 101 | TRT#: 5 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100101 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------|-----------------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Mammary Gland | Pituitary Gland | Prostate, Dorsal Lobe |
| Seminal Vesicle | Skin | Spleen | Thymus |
| Thyroid Gland | | | |

OBSERVATIONS

| | | | |
|-----------------------------|--------------|-----------------------|---------------------|
| Epididymis | | Hypospermia | Moderate |
| | | Infiltration Cellular | Lymphocyte, Minimal |
| Kidney | Renal Tubule | Dilatation | Mild |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |
| Rete Testes | | Dilatation | Moderate |
| Testes | Seminif Tub | Degeneration | Marked |
| [Degeneration TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 102 | TRT#: 5 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100102 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Rete Testes | Seminal Vesicle | Skin | Spleen |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|------------------------|--------------|---------------------------|------------------|
| Kidney | Renal Tubule | Dilatation | Minimal |
| | | Inflammation | Chronic, Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 103 | TRT#: 5 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100103 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|------------------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Epididymis | Mammary Gland | Pituitary Gland | Prostate, Ventral Lobe |
| Rete Testes | Seminal Vesicle | Skin | Spleen |
| Testes | Thymus | Thyroid Gland | |

MISSING

Coagulating Gland

OBSERVATIONS

| | | |
|-----------------------|--------------|-------------------|
| Kidney | Inflammation | Chronic, Minimal |
| Liver | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 104 | TRT#: 5 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100104 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Rete Testes | Seminal Vesicle | Skin | Testes |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | | |
|------------------------|--|-----------------|------------------|
| Kidney | | Hyaline Droplet | Minimal |
| | | Inflammation | Chronic, Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 105 | TRT#: 5 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100105 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Rete Testes | Seminal Vesicle | Skin | Spleen |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|---|---------------------------------|--|----------------------------------|
| Kidney | Renal Tubule Interstitialium | Dilatation Fibrosis Inflammation | Mild Mild Chronic, Minimal |
| Liver | | Fibrosis Hepatodiaphragmatic Nodule Inflammation | Mild Chronic, Mild |
| [Hepatodiaphragmatic Nodule TGLS = 1-5] | | | |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 106 | TRT#: 5 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100106 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Rete Testes | Seminal Vesicle | Skin | Spleen |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|------------------------|--------------|---------------------------|------------------|
| Kidney | Renal Tubule | Dilatation | Mild |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 107

TRT#: 5
DOSE: F0 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 140
HISTO: 21320100107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|-----------------------|
| Adrenal Cortex | Bone Marrow | Bone, Femur | Coagulating Gland |
| Epididymis | Mammary Gland | Pituitary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Skin | Spleen |
| Testes | Thymus | Thyroid Gland | |

MISSING

Adrenal Medulla

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Kidney | Inflammation | Chronic, Minimal |
| Liver | Inflammation | Chronic, Minimal |
| | Necrosis | Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 108 | TRT#: 6 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100108 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
|------------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 109 | TRT#: 7 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100109 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|-----------------------|-------------|-----------------|
| Coagulating Gland Testes | Prostate, Dorsal Lobe | Rete Testes | Seminal Vesicle |
|-----------------------------|-----------------------|-------------|-----------------|

MISSING

Mammary Gland

OBSERVATIONS

| | | |
|------------------------|-----------------------|---------------------|
| Epididymis | Infiltration Cellular | Lymphocyte, Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 110

TRT#: 7
DOSE: F0 100 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 140
HISTO: 21320100110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Prostate, Dorsal Lobe
Testes

Epididymis
Prostate, Ventral Lobe

Mammary Gland
Rete Testes

Prostate
Seminal Vesicle

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 111 | TRT#: 8 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100111 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-----------------|-----------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate, Ventral Lobe | Rete Testes | Seminal Vesicle | Skin |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | | |
|-----------------------------------|--------------|--------------------|----------------------|
| Kidney | Renal Tubule | Dilatation | Minimal |
| Liver | | Lymphoma Malignant | |
| | | Necrosis | Mild |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Spleen | | Lymphoma Malignant | |
| [Lymphoma Malignant TGLS = 1-5] | | | |
| Testes | Seminif Tub | Degeneration | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 112 | TRT#: 7 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100112 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------|---------------|-----------------------|-------------|
| Epididymis | Mammary Gland | Prostate, Dorsal Lobe | Rete Testes |
| Seminal Vesicle | Testes | | |

INSUFFICIENT TISSUE

Coagulating Gland

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
|------------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 113 | TRT#: 7 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100113 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Seminal Vesicle | Testes | | |

MISSING

Rete Testes

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
|------------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 114 | TRT#: 7 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100114 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------|-----------------|-----------------------|
| Coagulating Gland | Epididymis | Prostate | Prostate, Dorsal Lobe |
| Prostate, Ventral Lobe | Rete Testes | Seminal Vesicle | |

OBSERVATIONS

| | | | |
|---------------|-------------|--------------|---------|
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Testes | Seminif Tub | Degeneration | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 115 | TRT#: 8 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100115 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------------|------------------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate | Prostate, Dorsal Lobe | Prostate, Ventral Lobe | Rete Testes |
| Skin | Testes | Thymus | Thyroid Gland |

AUTO PRECLUDES DIAG.

Seminal Vesicle

OBSERVATIONS

| | | | |
|---|--------------|--------------|------------------|
| Kidney | Renal Tubule | Dilatation | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Sem Ves | | | |
| Note: PATHOLOGIST NOTED: TISSUE DAMAGED AT NECROPSY | | | |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 116

TRT#: 8

SEX: Male

DAY ON TEST: 140

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Coagulating Gland
Prostate
Seminal Vesicle
Thymus

Adrenal Medulla
Epididymis
Prostate, Dorsal Lobe
Skin
Thyroid Gland

Bone Marrow
Mammary Gland
Prostate, Ventral Lobe
Spleen

Bone, Femur
Pituitary Gland
Rete Testes
Testes

OBSERVATIONS

Kidney

Casts Protein

Minimal

Inflammation

Chronic, Minimal

Liver

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 117 | TRT#: 8 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100117 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------------|------------------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate | Prostate, Dorsal Lobe | Prostate, Ventral Lobe | Rete Testes |
| Seminal Vesicle | Skin | Spleen | Testes |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | |
|--------|--------------|------------------|
| Kidney | Inflammation | Chronic, Minimal |
| Liver | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 118 | TRT#: 8 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100118 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------|---------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Liver | Mammary Gland |
| Pituitary Gland | Rete Testes | Seminal Vesicle | Skin |
| Spleen | Testes | Thyroid Gland | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|-----------------------------|-----|--------------|----------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| Mesentery | Fat | Inflammation | Chronic, Marked |
| [Inflammation TGLS = 1-8] | | | |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Mild |
| | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 119 | TRT#: 8 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100119 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Pituitary Gland | Rete Testes |
| Seminal Vesicle | Skin | Testes | Thymus |

OBSERVATIONS

| | | | |
|------------------------|--------------|--------------|----------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| | Duct | Hyperplasia | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Spleen | | Pigmentation | Minimal |
| Thyroid Gland | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 120 | TRT#: 6 | SEX: Male | DAY ON TEST: 140 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100120 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|------------------------|--------------|---------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |
|------------------------|--------------|---------------|

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 141

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Coagulating Gland
Mammary Gland
Skin
Thyroid Gland

Adrenal Medulla
Epididymis
Pituitary Gland
Spleen

Bone Marrow
Kidney
Rete Testes
Testes

Bone, Femur
Liver
Seminal Vesicle
Thymus

OBSERVATIONS

Prostate, Dorsal Lobe
Prostate, Ventral Lobe

Inflammation
Inflammation

Chronic, Minimal
Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 151 | TRT#: 5 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100151 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Pituitary Gland | Rete Testes |
| Skin | Spleen | Testes | Thymus |
| Thyroid Gland | | | |

OBSERVATIONS

| | | | |
|------------------------|----------|--------------|----------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Suppurative, Mild |
| | | Inflammation | Chronic, Mild |
| Seminal Vesicle | | Dilatation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 141

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Rete Testes | Seminal Vesicle | Skin | Testes |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Kidney | Inflammation | Chronic, Minimal |
| Liver | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
| Spleen | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 153 | TRT#: 5 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100153 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------------|------------------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate | Prostate, Dorsal Lobe | Prostate, Ventral Lobe | Rete Testes |
| Seminal Vesicle | Skin | Spleen | Testes |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | | |
|--------|--------------|---------------------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Vacuolization Cytoplasmic | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 154 | TRT#: 5 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100154 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------|-----------------------|-------------|-------------------|
| Adrenal Medulla | Bone Marrow | Bone, Femur | Coagulating Gland |
| Epididymis | Kidney | Liver | Mammary Gland |
| Pituitary Gland | Prostate, Dorsal Lobe | Rete Testes | Seminal Vesicle |
| Skin | Testes | Thymus | Thyroid Gland |

OBSERVATIONS

| | | |
|------------------------|-----------------------------------|------------------|
| Adrenal Cortex | Accessory Adrenal Cortical Nodule | |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
| Spleen | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 155 | TRT#: 5 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100155 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|-----------------|-----------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate, Dorsal Lobe | Rete Testes | Seminal Vesicle | Skin |
| Spleen | Testes | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|------------------------|--------------|--------------|------------------|
| Kidney | Renal Tubule | Dilatation | Minimal |
| | | Inflammation | Chronic, Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Necrosis | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 156

TRT#: 6

SEX: Male

DAY ON TEST: 141

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Rete Testes

Epididymis
Seminal Vesicle

Mammary Gland
Testes

Prostate, Dorsal Lobe

OBSERVATIONS

Prostate, Ventral Lobe

Inflammation
Inflammation

Chronic, Mild
Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 157 | TRT#: 6 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100157 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|------------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Ventral Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|-------------------------|--------------|-------------------|
| Liver | Fibrosis | Moderate |
| [Fibrosis TGLS = 1-5] | | |
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH -

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 158 | TRT#: 6 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100158 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
|------------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH -

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 159

TRT#: 6

SEX: Male

DAY ON TEST: 141

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Rete Testes

Epididymis
Testes

Mammary Gland

Prostate, Dorsal Lobe

OBSERVATIONS

Prostate, Ventral Lobe
Seminal Vesicle

Inflammation
Dilatation

Chronic, Minimal
Mild

[Dilatation TGLS = 1-6.1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 160 | TRT#: 6 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100160 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | | |
|-----------------------------|--------------|--|------------------|
| Liver | Malformation | | |
| [Malformation TGLS = 1-5] | | | |
| Prostate, Dorsal Lobe | Inflammation | | Chronic, Minimal |
| Prostate, Ventral Lobe | Inflammation | | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 161

TRT#: 6

SEX: Male

DAY ON TEST: 141

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Prostate, Dorsal Lobe
Testes

Epididymis
Prostate, Ventral Lobe

Mammary Gland
Rete Testes

Prostate
Seminal Vesicle

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 162 | TRT#: 7 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100162 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
|------------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH -

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 141

DOSE: F0 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Testes

Mammary Gland

Rete Testes

Seminal Vesicle

OBSERVATIONS

Epididymis
Prostate, Dorsal Lobe

Prostate, Ventral Lobe

Infiltration Cellular
Inflammation
Inflammation
Inflammation
Inflammation

Lymphocyte, Minimal
Chronic, Mild
Suppurative, Mild
Chronic, Mild
Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 164 | TRT#: 7 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100164 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Dorsal Lobe | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 165 | TRT#: 7 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100165 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------|---------------|-----------------------|-------------|
| Epididymis | Mammary Gland | Prostate, Dorsal Lobe | Rete Testes |
| Seminal Vesicle | Testes | | |

MISSING

Coagulating Gland

OBSERVATIONS

| | | |
|------------------------|--------------|---------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |
|------------------------|--------------|---------------|

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 166 | TRT#: 7 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100166 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | |
|------------------------|--------------|----------------------|
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 167 | TRT#: 7 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100167 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|------------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Ventral Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|-----------------------|--------------|-------------------|
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Mild |
|-----------------------|--------------|-------------------|

PRIMARY CAUSE OF DEATH -

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 168 | TRT#: 7 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100168 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|------------------------|--------------|---------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |
|------------------------|--------------|---------------|

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 169 | TRT#: 8 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100169 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Rete Testes | Seminal Vesicle | Skin | Spleen |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|------------------------|--------------|---------------------------|----------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 170 | TRT#: 8 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100170 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------|---------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Mammary Gland | Pituitary Gland | Rete Testes |
| Seminal Vesicle | Skin | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|---|--------------|----------------------------|-------------------|
| Epididymis | | Hypospermia | Marked |
| [Hypospermia TGLS = 2-6.2] | | | |
| Kidney | Renal Tubule | Dilatation | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Minimal |
| [Hepatodiaphragmatic Nodule TGLS = 3-5] | | | |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |
| | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Spleen | Adventitia | Inflammation | Chronic, Minimal |
| Testes | Seminif Tub | Degeneration | Marked |
| [Degeneration TGLS = 1-6.2] | | | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 171 | TRT#: 8 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100171 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Rete Testes | Seminal Vesicle | Skin | Testes |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | | |
|------------------------|--------------|--------------|----------------------|
| Kidney | Renal Tubule | Dilatation | Minimal |
| | | Inflammation | Chronic, Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 172 | TRT#: 8 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100172 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------|-----------------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Pituitary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Skin | Testes |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | | |
|---|----------|----------------------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| Liver | | Hepatodiaphragmatic Nodule | |
| [Hepatodiaphragmatic Nodule TGLS = 1-5] | | | |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Spleen | | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 173 | TRT#: 8 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100173 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------|---------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Kidney | Liver |
| Pituitary Gland | Rete Testes | Seminal Vesicle | Skin |
| Spleen | Testes | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|------------------------|----------|--------------|-------------------|
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |
| | | Inflammation | Chronic, Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 174 | TRT#: 8 | SEX: Male | DAY ON TEST: 141 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100174 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|-----------------|-----------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate, Dorsal Lobe | Rete Testes | Seminal Vesicle | Skin |
| Spleen | Testes | Thymus | |

OBSERVATIONS

| | | |
|------------------------|---------------------------|------------------|
| Kidney | Inflammation | Chronic, Minimal |
| Liver | Inflammation | Chronic, Minimal |
| | Vacuolization Cytoplasmic | Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
| Thyroid Gland | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 200 | TRT#: 5 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100200 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Rete Testes | Skin | Spleen | Testes |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | | |
|------------------------|--------------|---------------------------|----------------------|
| Kidney | Renal Tubule | Dilatation | Mild |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |
| Seminal Vesicle | | Dilatation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 201 | TRT#: 5 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100201 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Rete Testes | Seminal Vesicle | Skin | Spleen |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|------------------------|-----------------------|-----------------|-------------------|
| Kidney | Renal Tubule | Dilatation | Mild |
| | Interstitialium | Fibrosis | Mild |
| | | Hyaline Droplet | Minimal |
| | | Inflammation | Chronic, Mild |
| Liver | Renal Tubule | Regeneration | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Prostate, Dorsal Lobe | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 202 | TRT#: 5 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100202 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|-----------------|-----------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate, Dorsal Lobe | Rete Testes | Seminal Vesicle | Skin |
| Spleen | Testes | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|---|--------------|----------------------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Minimal |
| [Hepatodiaphragmatic Nodule TGLS = 1-5] | | | |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 203 | TRT#: 5 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100203 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-----------------|-----------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate, Ventral Lobe | Rete Testes | Seminal Vesicle | Skin |
| Spleen | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|---|-------------|--------------|----------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | | |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Testes | Seminif Tub | Degeneration | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 204

TRT#: 5
DOSE: F0 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 142
HISTO: 21320100204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Kidney | Liver |
| Mammary Gland | Pituitary Gland | Rete Testes | Seminal Vesicle |
| Skin | Spleen | Testes | Thymus |
| Thyroid Gland | | | |

OBSERVATIONS

| | | |
|------------------------|--------------|----------------------|
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 205 | TRT#: 5 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100205 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------|---------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Liver | Mammary Gland |
| Pituitary Gland | Rete Testes | Seminal Vesicle | Skin |
| Spleen | Testes | Thymus | |

OBSERVATIONS

| | | |
|------------------------|--------------|----------------------|
| Kidney | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | Inflammation | Suppurative, Minimal |
| Thyroid Gland | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 206

TRT#: 6

SEX: Male

DAY ON TEST: 142

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Rete Testes

Epididymis
Seminal Vesicle

Mammary Gland
Testes

Prostate, Ventral Lobe

OBSERVATIONS

Prostate, Dorsal Lobe

Inflammation

Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 207 | TRT#: 6 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100207 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|---------------|-------------|-----------------|
| Coagulating Gland | Mammary Gland | Rete Testes | Seminal Vesicle |
|-------------------|---------------|-------------|-----------------|

OBSERVATIONS

| | | | |
|-----------------------------|-------------|-----------------------|---------------------|
| Epididymis | | Infiltration Cellular | Lymphocyte, Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| | | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Testes | Seminif Tub | Degeneration | Moderate |
| [Degeneration TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 208 | TRT#: 6 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100208 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Dorsal Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|------------------------|--------------|------------------|
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
|------------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 209 | TRT#: 6 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100209 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|------------------------|---------------|-----------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate |
| Prostate, Dorsal Lobe | Prostate, Ventral Lobe | Rete Testes | Seminal Vesicle |

OBSERVATIONS

| | | | |
|-------------------------|--------------|--------------|---------|
| Liver | Perivascular | Fibrosis | Mild |
| [Fibrosis TGLS = 1-5] | | | |
| Testes | Seminif Tub | Degeneration | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 210 | TRT#: 6 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100210 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | |
|------------------------|--------------|----------------------|
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Minimal |
| | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 211 | TRT#: 6 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100211 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | |
|------------------------|--------------|-------------------|
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH -

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 212 | TRT#: 7 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100212 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | | |
|-------------------------|--------|--------------|------------------|
| Kidney | Cortex | Cyst | |
| Note: [Cyst TGLs = 1-2] | | | |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 213

TRT#: 7
DOSE: F0 100 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 142
HISTO: 21320100213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Prostate, Ventral Lobe

Mammary Gland
Rete Testes

Prostate
Seminal Vesicle

Prostate, Dorsal Lobe
Testes

INSUFFICIENT TISSUE

Coagulating Gland

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 214 | TRT#: 7 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100214 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | |
|------------------------|--------------|----------------------|
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 215 | TRT#: 7 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100215 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | |
|------------------------|--------------|-----------------------|
| Prostate, Dorsal Lobe | Inflammation | Chronic, Mild |
| | Inflammation | Suppurative, Moderate |
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 216 | TRT#: 7 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100216 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------|---------------|-------------|
| Coagulating Gland | Epididymis | Mammary Gland | Rete Testes |
| Seminal Vesicle | Testes | | |

OBSERVATIONS

| | | |
|------------------------|--------------|----------------------|
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |
| | Inflammation | Suppurative, Minimal |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 217 | TRT#: 7 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100217 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|------------------------|
| Coagulating Gland | Epididymis | Mammary Gland | Prostate, Ventral Lobe |
| Rete Testes | Seminal Vesicle | Testes | |

OBSERVATIONS

| | | |
|-----------------------|--------------|------------------|
| Prostate, Dorsal Lobe | Inflammation | Chronic, Minimal |
|-----------------------|--------------|------------------|

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 218 | TRT#: 8 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100218 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------|---------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Pituitary Gland | Rete Testes |
| Seminal Vesicle | Skin | Testes | Thyroid Gland |

MISSING

Thymus

OBSERVATIONS

| | | | |
|------------------------|----------|--------------|----------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| Liver | | Hemorrhage | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |
| | | Inflammation | Suppurative, Mild |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 219 | TRT#: 8 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100219 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|-----------------|-----------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate, Dorsal Lobe | Rete Testes | Seminal Vesicle | Skin |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|-----------------------------|---------|---------------------------|------------------|
| Kidney | | Inflammation | Chronic, Mild |
| Liver | | Inflammation | Chronic, Minimal |
| | | Malformation | |
| | | Vacuolization Cytoplasmic | Minimal |
| [Malformation TGLS = 1-5] | | | |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |
| Spleen | Capsule | Fibrosis | Mild |
| | | Pigmentation | Mild |
| [Fibrosis TGLS = 2-5] | | | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:24
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 220 | TRT#: 8 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100220 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-----------------|-----------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate, Ventral Lobe | Rete Testes | Seminal Vesicle | Skin |
| Spleen | Testes | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|-----------------------|--------------|---------------------------|-------------------|
| Kidney | Renal Tubule | Dilatation | Minimal |
| | | Inflammation | Chronic, Minimal |
| Liver | Renal Tubule | Regeneration | Minimal |
| | | Inflammation | Chronic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 221 | TRT#: 8 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100221 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------------|------------------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate | Prostate, Dorsal Lobe | Prostate, Ventral Lobe | Rete Testes |
| Seminal Vesicle | Skin | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|--------|--------------|--------------|------------------|
| Kidney | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Necrosis | Minimal |
| Spleen | Capsule | Inflammation | Chronic, Minimal |
| | | Pigmentation | Minimal |
| Testes | | Edema | Mild |

[Edema TGLS = 1-7]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 222 | TRT#: 8 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100222 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-------------|---------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Kidney | Mammary Gland |
| Rete Testes | Seminal Vesicle | Skin | Testes |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | | |
|-----------------------------|---------------|--------------|----------------------|
| Liver | | Inflammation | Chronic, Minimal |
| Pituitary Gland | Pars Distalis | Cyst | Multiple |
| Preputial Gland | Duct | Dilatation | Marked |
| | | Inflammation | Suppurative, Marked |
| [Dilatation TGLS = 1-8] | | | |
| [Inflammation TGLS = 1-8] | | | |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Spleen | Adventitia | Inflammation | Chronic, Minimal |
| | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 223 | TRT#: 8 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100223 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-----------------|-----------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Prostate, Ventral Lobe | Rete Testes | Seminal Vesicle | Skin |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | |
|-----------------------|---------------------------|------------------|
| Kidney | Inflammation | Chronic, Minimal |
| Liver | Inflammation | Chronic, Minimal |
| | Necrosis | Minimal |
| | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | Inflammation | Chronic, Minimal |
| Spleen | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 224 | TRT#: 8 | SEX: Male | DAY ON TEST: 142 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100224 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Coagulating Gland | Epididymis | Mammary Gland | Pituitary Gland |
| Rete Testes | Seminal Vesicle | Skin | Spleen |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|---|--------------|--------------|----------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | | |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|---------------------|-------------------------|-----------------------|---------------------------|
| ANIMAL ID: 2 | TRT#: 3 | SEX: Female | DAY ON TEST: 94 |
| | DOSE: F0 100 PPM | DISP: Moribund | HISTO: 21320100002 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|------------------------|--------------------------|------------------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Brain - Brain Stem | Brain - Cerebellum | Brain - Cerebrum | Clitoral Gland |
| Esophagus | Heart | Intestine Large, Cecum | Intestine Large, Colon |
| Intestine Small, Duodenum | Intestine Small, Ileum | Intestine Small, Jejunum | Lung |
| Lymph Node, Mandibular | Lymph Node, Mesenteric | Nose | Oviduct |
| Pancreas | Pituitary Gland | Salivary Glands | Skin |
| Spleen | Stomach, Forestomach | Stomach, Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|---------------------------|----------------|----------|
| Esophagus | | | |
| Note: PATHOLOGIST NOTED: CERTAIN ACCUMULATION COMPATIBLE WITH NOT EATING | | | |
| Kidney | | Apoptosis | Marked |
| | | Mineralization | Mild |
| | Bilateral, Parenchym Cell | Proliferation | Moderate |
| Liver | | Crystals | Marked |
| Mammary Gland | Alveolus | Hyperplasia | Marked |
| | Duct | Hyperplasia | Moderate |
| Ovary | Corpus Luteum | Hypertrophy | Moderate |
| Note: PATHOLOGIST NOTED: NORMAL FOR PREGNANCY | | | |
| Uterus | | Pregnancy | |
| Vagina | Mucocyte | Hyperplasia | Moderate |
| | Mucocyte | Hypertrophy | Moderate |
| Note: PATHOLOGIST NOTED: PREGNANCY | | | |

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: COD...UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|---------------------|-----------------------|-----------------------|---------------------------|
| ANIMAL ID: 4 | TRT#: 1 | SEX: Female | DAY ON TEST: 98 |
| | DOSE: F0 0 PPM | DISP: Moribund | HISTO: 21320100004 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|---------------------------|------------------------|--------------------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Brain - Brain Stem | Brain - Cerebellum | Brain - Cerebrum | Intestine Large, Cecum |
| Intestine Large, Colon | Intestine Small, Duodenum | Intestine Small, Ileum | Intestine Small, Jejunum |
| Liver | Lymph Node, Mandibular | Lymph Node, Mesenteric | Nose |
| Oviduct | Pancreas | Pituitary Gland | Salivary Glands |
| Skin | Spleen | Stomach, Forestomach | Stomach, Glandular |
| Thyroid Gland | | | |

OBSERVATIONS

| | | | |
|---|----------|-----------------------|--------------------------------------|
| Esophagus | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| Eye | Cornea | Edema | Moderate |
| [Edema TGLS = 2-8.1] | | | |
| Heart | | Cardiomyopathy | Mild |
| Kidney | | Mineralization | Minimal |
| Lung | | Inflammation | Chronic Active, Multifocal, Moderate |
| Mammary Gland | Alveolus | Hyperplasia | Marked |
| | Lobules | Hyperplasia | Marked |
| Ovary | | Metestrus | |
| Note: PATHOLOGIST NOTED: HYPERTROPY,MILD,CORPUS LUTEUM (LATE PREGNANCY) | | | |
| Thymus | | Atrophy | Moderate |
| Uterus | | Decidual Reaction | |
| | | Infiltration Cellular | Eosinophil, Moderate |
| | | Metestrus | |
| Vagina | Mucocyte | Hypertrophy | Mild |
| | | Infiltration Cellular | Eosinophil, Marked |
| | | Metestrus | |

PRIMARY CAUSE OF DEATH -

Animal Note: COD...PROBABLE- POSSIBLE INHALATION PNEUMONIA

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 21 | TRT#: 1 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100021 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|--------|--------|-------------------|------|
| Kidney | Pelvis | Dilatation | Mild |
| Ovary | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 22 | TRT#: 1 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100022 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|-------------------------|--|-------------------|-----------------|
| Bone | | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 1-8] | | | |
| Kidney | | Mineralization | Mild |
| Ovary | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Vagina | | Estrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 23 | TRT#: 1 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100023 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Mammary Gland | Oviduct | Pituitary Gland | Skin |
| Spleen | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|--|--|-------------------|----------------------|
| Kidney | | Mineralization | Mild |
| Liver | | Inflammation | Chronic Active, Mild |
| Ovary | | Metestrus | |
| Note: PATHOLOGIST NOTED: POLYOVULAR FOLLICLE | | | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 24

TRT#: 1

SEX: Female

DAY ON TEST: 139

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Kidney
Pituitary Gland
Thyroid Gland

Adrenal Medulla
Liver
Skin

Bone Marrow
Mammary Gland
Spleen

Bone, Femur
Oviduct
Thymus

OBSERVATIONS

Ovary
Uterus

Proestrus
Decidual Reaction
Proestrus
Proestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 25 | TRT#: 1 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100025 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Oviduct | Pituitary Gland | Skin |
| Spleen | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|--|----------|-------------------|----------|
| Kidney | | Mineralization | Moderate |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Ovary | | Diestrus | |
| Note: PATHOLOGIST NOTED: POLYOVULAR FOLLICLE | | | |
| Uterus | | Decidual Reaction | |
| | | Diestrus | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 26 | TRT#: 1 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100026 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | |

MISSING

Thyroid Gland

OBSERVATIONS

| | | |
|---|-------------------|----------|
| Kidney | Mineralization | Moderate |
| Ovary | Diestrus | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 27 | TRT#: 2 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100027 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | | |
|---|-------------------|------------|------|
| Kidney | Bilateral, Pelvis | Dilatation | Mild |
| [Dilatation TGLS = 1-2] | | | |
| Ovary | | Proestrus | |
| Uterus | | Proestrus | |
| Note: PATHOLOGIST NOTED: DECIDUAL REACTION NOT IN SECTION | | | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 28 | TRT#: 2 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100028 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Diestrus | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 29 | TRT#: 2 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100029 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | |
|--------|---------------|---------|
| Kidney | Mammary Gland | Oviduct |
|--------|---------------|---------|

OBSERVATIONS

| | | |
|--------|---|----------------------------|
| Liver | [Developmental Malformation TGLS = 1,2,3-5] | Developmental Malformation |
| Ovary | | Proestrus |
| Uterus | | Decidual Reaction |
| | | Proestrus |
| Vagina | | Proestrus |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 30 | TRT#: 2 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100030 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|-------------------------|
| Kidney | Inflammation | Chronic Active, Minimal |
| | Mineralization | Mild |
| Ovary | Proestrus | |
| Uterus | Decidual Reaction | |
| | Proestrus | |
| Vagina | Proestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 31 | TRT#: 2 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100031 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Metestrus | |
| Uterus | Decidual Reaction | |
| | Metestrus | |
| Vagina | Metestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 32 | TRT#: 2 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100032 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|---|-------------------|----------------------|
| Clitoral Gland [Inflammation TGLS = 1-8] | Inflammation | Chronic Active, Mild |
| Kidney | Mineralization | Minimal |
| Ovary | Metestrus | |
| Uterus | Decidual Reaction | |
| | Decidual Reaction | |
| Vagina | Metestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 33 | TRT#: 2 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100033 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Diestrus | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 34 | TRT#: 3 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100034 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Proestrus | |
| Uterus | Decidual Reaction | |
| | Proestrus | |
| Vagina | Proestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 35 | TRT#: 3 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100035 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | |
|--------|---------------|---------|
| Kidney | Mammary Gland | Oviduct |
|--------|---------------|---------|

OBSERVATIONS

| | |
|--------|-------------------|
| Ovary | Metestrus |
| Uterus | Decidual Reaction |
| | Metestrus |
| Vagina | Metestrus |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 36 | TRT#: 3 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100036 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|-------------------------|
| Kidney | Inflammation | Chronic Active, Minimal |
| | Mineralization | Minimal |
| Ovary | Metestrus | |
| Uterus | Decidual Reaction | |
| | Metestrus | |
| Vagina | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 37 | TRT#: 3 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100037 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Diestrus | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 38 | TRT#: 3 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100038 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Metestrus | |
| Uterus | Decidual Reaction | |
| | Metestrus | |
| Vagina | Metestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 39 | TRT#: 3 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100039 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Metestrus | |
| Uterus | Decidual Reaction | |
| | Metestrus | |
| Vagina | Metestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 40 | TRT#: 4 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100040 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Kidney | Liver | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 41 | TRT#: 4 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100041 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Metestrus | |
| Uterus | Decidual Reaction | |
| | Metestrus | |
| Vagina | Metestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 42 | TRT#: 4 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100042 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | |
|---|----------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Diestrus | |
| Uterus | Diestrus | |
| Note: PATHOLOGIST NOTED: DECIDUAL REACTION NOT IN SECTION | | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 43

TRT#: 4

SEX: Female

DAY ON TEST: 139

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Kidney
Pituitary Gland
Thyroid Gland

Adrenal Medulla
Liver
Skin

Bone Marrow
Mammary Gland
Spleen

Bone, Femur
Oviduct
Thymus

OBSERVATIONS

Ovary
Uterus

Proestrus
Decidual Reaction
Proestrus

Note: TGL # 01 - NO MICROSCOPIC CORRELATE

Vagina

Estrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 44

TRT#: 4

SEX: Female

DAY ON TEST: 139

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Kidney
Pituitary Gland
Thyroid Gland

Adrenal Medulla
Liver
Skin

Bone Marrow
Mammary Gland
Spleen

Bone, Femur
Oviduct
Thymus

OBSERVATIONS

Ovary
Uterus

Metestrus
Decidual Reaction
Metestrus
Metestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 45 | TRT#: 4 | SEX: Female | DAY ON TEST: 139 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100045 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Mammary Gland | Oviduct | Pituitary Gland | Skin |
| Spleen | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|--|---|----------------------------|------|
| Kidney | | Mineralization | Mild |
| Liver | Left Lat Lobe | Developmental Malformation | |
| | Median Lobe | Developmental Malformation | |
| | [Developmental Malformation TGLS = 1,2-5] | | |
| Ovary | | Metestrus | |
| Note: PATHOLOGIST NOTED: POLYOVULAR FOLLICLE | | | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 70 | TRT#: 1 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100070 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Proestrus | |
| Uterus | Decidual Reaction | |
| | Proestrus | |
| Vagina | Proestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 71 | TRT#: 1 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100071 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Oviduct | Pituitary Gland | Skin |
| Spleen | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|--|----------|-------------------|---------|
| Kidney | | Mineralization | Mild |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Diestrus | |
| Note: PATHOLOGIST NOTED: POLYOVULAR FOLLICLE | | | |
| Uterus | | Decidual Reaction | |
| | | Diestrus | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 72 | TRT#: 1 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100072 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Kidney | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | |
|--|----------------------------|
| Liver | Developmental Malformation |
| [Developmental Malformation TGLS = 1-5] | |
| Ovary | Metestrus |
| Note: PATHOLOGIST NOTED: POLYOVULAR FOLLICLE | |
| Uterus | Decidual Reaction |
| | Metestrus |
| Vagina | Metestrus |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 73 | TRT#: 1 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100073 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | |
|---|-------------------|--------|
| Kidney | Mineralization | Marked |
| Ovary | Diestrus | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 74 | TRT#: 1 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100074 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Proestrus | |
| Uterus | Decidual Reaction | |
| | Metestrus | |
| Vagina | Metestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 75 | TRT#: 1 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100075 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Kidney | Liver | Oviduct | Pituitary Gland |
| Skin | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|--|----------|-------------------|---------|
| Liver | | | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | | |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Proestrus | |
| Note: PATHOLOGIST NOTED: POLYOVULAR FOLLICLE | | | |
| Spleen | | Pigmentation | Mild |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 76

TRT#: 1

SEX: Female

DAY ON TEST: 140

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Kidney
Pituitary Gland
Thyroid Gland

Adrenal Medulla
Liver
Skin

Bone Marrow
Mammary Gland
Spleen

Bone, Femur
Oviduct
Thymus

OBSERVATIONS

Ovary
Uterus

Proestrus
Decidual Reaction
Proestrus
Proestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 77 | TRT#: 2 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100077 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|--------|---------|
| Kidney | Oviduct |
|--------|---------|

OBSERVATIONS

| | | | |
|--|----------|-------------------|----------|
| Mammary Gland | Alveolus | Hyperplasia | Moderate |
| Ovary | | Proestrus | |
| Note: PATHOLOGIST NOTED: POLYOVULAR FOLLICLE | | | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | | |
| Vagina | | Estrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 78 | TRT#: 2 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100078 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Ovary | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 79 | TRT#: 2 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100079 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|----------|
| Kidney | | Mineralization | Mild |
| Mammary Gland | Alveolus | Hyperplasia | Moderate |
| Ovary | | Diestrus | |
| Uterus | | Decidual Reaction | |
| | | Diestrus | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 80 | TRT#: 2 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100080 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|----------|
| Kidney | | Mineralization | Moderate |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Ovary | | Estrus | |
| Uterus | | Decidual Reaction | |
| | | Estrus | |
| Vagina | | Estrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 81 | TRT#: 2 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100081 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|---|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Proestrus | |
| Uterus | Decidual Reaction | |
| | Proestrus | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | |
| Vagina | Estrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 82

TRT#: 2

SEX: Female

DAY ON TEST: 140

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---|----------|-------------------|----------|
| Kidney | | Mineralization | Mild |
| Mammary Gland | Alveolus | Hyperplasia | Moderate |
| Ovary | | Metestrus | |
| Oviduct | | | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 83 | TRT#: 3 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100083 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|----------|
| Kidney | Mineralization | Moderate |
| Ovary | Metestrus | |
| Uterus | Decidual Reaction | |
| | Metestrus | |
| Vagina | Metestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 84 | TRT#: 3 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100084 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Proestrus | |
| Uterus | Decidual Reaction | |
| | Proestrus | |
| Vagina | Estrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 85 | TRT#: 3 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100085 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Diestrus | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 86 | TRT#: 3 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100086 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|---|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Proestrus | |
| Uterus | Decidual Reaction | |
| | Proestrus | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | |
| Vagina | Estrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 87 | TRT#: 3 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100087 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|------|
| Kidney | Mineralization | Mild |
| Ovary | Diestrus | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 88 | TRT#: 3 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100088 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|----------|
| Kidney | Mineralization | Moderate |
| Ovary | Proestrus | |
| Uterus | Decidual Reaction | |
| | Proestrus | |
| Vagina | Proestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 89

TRT#: 4

SEX: Female

DAY ON TEST: 140

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Kidney
Pituitary Gland
Thyroid Gland

Adrenal Medulla
Liver
Skin

Bone Marrow
Mammary Gland
Spleen

Bone, Femur
Oviduct
Thymus

OBSERVATIONS

Ovary
Uterus

Diestrus
Decidual Reaction
Diestrus
Diestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 90 | TRT#: 4 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100090 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Mammary Gland | Oviduct | Pituitary Gland | Skin |
| Spleen | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|---|---------------|----------------------------|---------|
| Kidney | | Mineralization | Minimal |
| Liver | Left Lat Lobe | Developmental Malformation | |
| [Developmental Malformation TGLS = 1-5] | | | |
| Ovary | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Note: TGL # 02 - NO MICROSCOPIC CORRELATE | | | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 91 | TRT#: 4 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100091 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Oviduct | Pituitary Gland | Skin | Spleen |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|----------------------|
| Kidney | | Mineralization | Mild |
| Liver | | Inflammation | Chronic Active, Mild |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Diestrus | |
| Uterus | | Decidual Reaction | |
| | | Diestrus | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 92 | TRT#: 4 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100092 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|------------------------|------|-------------------|---------|
| Clitoral Gland | | Abscess | |
| | | Keratin Cyst | |
| [Abscess TGLS = 1-8] | | | |
| Kidney | Left | Cyst | Mild |
| | | Mineralization | Minimal |
| Ovary | | Diestrus | |
| Uterus | | Decidual Reaction | |
| | | Diestrus | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 93 | TRT#: 4 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100093 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Kidney | Oviduct | Pituitary Gland | Skin |
| Spleen | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|-------------------------|
| Liver | | Inflammation | Chronic Active, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 94 | TRT#: 4 | SEX: Female | DAY ON TEST: 140 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100094 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | |
|--------|-------------------|--------|
| Kidney | Mineralization | Marked |
| Ovary | Metestrus | |
| Uterus | Decidual Reaction | |
| | Metestrus | |
| Vagina | Metestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 125

TRT#: 1

SEX: Female

DAY ON TEST: 141

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Skin

Adrenal Medulla
Mammary Gland
Spleen

Bone Marrow
Oviduct
Thymus

Bone, Femur
Pituitary Gland
Thyroid Gland

OBSERVATIONS

Kidney
Ovary
Uterus

Vagina

Mineralization
Metestrus
Decidual Reaction
Metestrus
Metestrus

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 126

TRT#: 1

SEX: Female

DAY ON TEST: 141

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Skin

Adrenal Medulla
Mammary Gland
Spleen

Bone Marrow
Oviduct
Thymus

Bone, Femur
Pituitary Gland
Thyroid Gland

OBSERVATIONS

Kidney

Left, Pelvis

Dilatation

Mild

Mineralization

Minimal

[Dilatation TGLS = 1-2]

Ovary

Diestrus

Uterus

Diestrus

Note: PATHOLOGIST NOTED: DECIDUAL REACTION NOT IN SECTION

Vagina

Diestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 127 | TRT#: 1 | SEX: Female | DAY ON TEST: 141 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100127 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-------------|-----------------|--------|
| Adrenal Cortex | Bone Marrow | Bone, Femur | Kidney |
| Liver | Oviduct | Pituitary Gland | Skin |
| Spleen | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|-----------------|-----------|---------------------------|---------|
| Adrenal Medulla | Bilateral | Vacuolization Cytoplasmic | Mild |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 128

TRT#: 1

SEX: Female

DAY ON TEST: 141

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Kidney
Spleen

Adrenal Medulla
Oviduct
Thymus

Bone Marrow
Pituitary Gland
Thyroid Gland

Bone, Femur
Skin

OBSERVATIONS

Liver
 [Developmental Malformation TGLS = 1-5]
Mammary Gland
Ovary
Uterus
Vagina

Alveolus
Lobules
Hyperplasia
Hyperplasia
Diestrus
Decidual Reaction
Diestrus
Diestrus

Developmental Malformation
Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 129

TRT#: 1

SEX: Female

DAY ON TEST: 141

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Spleen

Adrenal Medulla
Oviduct
Thymus

Bone Marrow
Pituitary Gland
Thyroid Gland

Bone, Femur
Skin

OBSERVATIONS

Kidney
Mammary Gland
Ovary
Uterus

Vagina

Alveolus

Mineralization
Hyperplasia
Estrus
Decidual Reaction
Estrus
Estrus

Moderate
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 130

TRT#: 1

SEX: Female

DAY ON TEST: 141

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Skin

Adrenal Medulla
Mammary Gland
Spleen

Bone Marrow
Oviduct
Thymus

Bone, Femur
Pituitary Gland
Thyroid Gland

OBSERVATIONS

Kidney
Ovary
Uterus

Vagina

Mineralization
Diestrus
Decidual Reaction
Diestrus
Diestrus

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 131

TRT#: 2

SEX: Female

DAY ON TEST: 141

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|----------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Moderate |
| Ovary | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 132

TRT#: 2

SEX: Female

DAY ON TEST: 141

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Ovary | | Diestrus | |
| Uterus | | Decidual Reaction | |
| | | Diestrus | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 133

TRT#: 2

SEX: Female

DAY ON TEST: 141

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|--|----------|-------------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| | Lobules | Hyperplasia | Minimal |
| Ovary | | Diestrus | |
| Note: PATHOLOGIST NOTED: POLYOVULAR FOLLICLE | | | |
| Uterus | | Decidual Reaction | |
| | | Diestrus | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 134

TRT#: 2
DOSE: F0 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 141
HISTO: 21320100134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---|----------|----------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Diestrus | |
| Uterus | | Diestrus | |
| Note: PATHOLOGIST NOTED: DECIDUAL REACTION NOT IN SECTION | | | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 135

TRT#: 2
DOSE: F0 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 141
HISTO: 21320100135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Minimal

Ovary

Diestrus

Uterus

Decidual Reaction

Diestrus

Vagina

Diestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 136

TRT#: 2
DOSE: F0 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 141
HISTO: 21320100136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Minimal

Ovary

Proestrus

Uterus

Decidual Reaction

Proestrus

Vagina

Estrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 137

TRT#: 3

SEX: Female

DAY ON TEST: 141

DOSE: F0 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|----------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Moderate |
| | Lobules | Hyperplasia | Minimal |
| Ovary | | Estrus | |
| Uterus | | Decidual Reaction | |
| | | Estrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 138 | TRT#: 3 | SEX: Female | DAY ON TEST: 141 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100138 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|--------|---------|
| Kidney | Oviduct |
|--------|---------|

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 139

TRT#: 3
DOSE: F0 100 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 141
HISTO: 21320100139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | |
|--------|---------------|---------|
| Kidney | Mammary Gland | Oviduct |
|--------|---------------|---------|

OBSERVATIONS

| | | |
|--------|---|-----------|
| Ovary | Note: PATHOLOGIST NOTED: POLYOVULAR FOLLICLE | Metestrus |
| Uterus | Note: PATHOLOGIST NOTED: DECIDUAL REACTION NOT IN SECTION | Metestrus |
| Vagina | | Metestrus |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 140 | TRT#: 3 | SEX: Female | DAY ON TEST: 141 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100140 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | |
|---------------|---------|------|
| Mammary Gland | Oviduct | Skin |
|---------------|---------|------|

OBSERVATIONS

| | | |
|---|-------------------|------|
| Kidney | Mineralization | Mild |
| Ovary | Proestrus | |
| Uterus | Decidual Reaction | |
| | Proestrus | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | |
| Vagina | Proestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 141 | TRT#: 3 | SEX: Female | DAY ON TEST: 141 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100141 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---|----------|-------------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| | Lobules | Hyperplasia | Minimal |
| Ovary | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 142 | TRT#: 3 | SEX: Female | DAY ON TEST: 141 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100142 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Ovary | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 143

TRT#: 3

SEX: Female

DAY ON TEST: 141

DOSE: F0 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

Kidney

Inflammation

Chronic Active, Minimal

Mineralization

Minimal

Mammary Gland

Alveolus

Hyperplasia

Mild

Ovary

Diestrus

Note: PATHOLOGIST NOTED: POLYOVULAR FOLLICLE

Uterus

Decidual Reaction

Vagina

Diestrus

Diestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 144

TRT#: 4

SEX: Female

DAY ON TEST: 141

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Kidney
Pituitary Gland
Thyroid Gland

Adrenal Medulla
Liver
Skin

Bone Marrow
Mammary Gland
Spleen

Bone, Femur
Oviduct
Thymus

OBSERVATIONS

Mesentery

Note: TGL # 01 - NO MICROSCOPIC CORRELATE

Ovary

Uterus

Vagina

Metestrus

Decidual Reaction

Metestrus

Metestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 145 | TRT#: 4 | SEX: Female | DAY ON TEST: 141 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100145 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Pituitary Gland | Skin | Spleen |
| Thymus | Thyroid Gland | | |

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|----------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Moderate |
| Ovary | | Metestrus | |
| Oviduct | | Estrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 146

TRT#: 4

SEX: Female

DAY ON TEST: 141

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Skin

Adrenal Medulla
Mammary Gland
Spleen

Bone Marrow
Oviduct
Thymus

Bone, Femur
Pituitary Gland
Thyroid Gland

OBSERVATIONS

Kidney
Ovary
Uterus

Vagina

Mineralization
Metestrus
Decidual Reaction
Metestrus
Diestrus

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 147

TRT#: 4
DOSE: F0 500 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 141
HISTO: 21320100147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|---------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Mammary Gland | Oviduct | Pituitary Gland |
| Skin | Thymus | Thyroid Gland | |

MISSING

Spleen

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Metestrus | |
| Uterus | Decidual Reaction | |
| | Metestrus | |
| Vagina | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 148 | TRT#: 4 | SEX: Female | DAY ON TEST: 141 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100148 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Kidney | Liver | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 149

TRT#: 4

SEX: Female

DAY ON TEST: 141

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Spleen

Adrenal Medulla
Oviduct
Thymus

Bone Marrow
Pituitary Gland
Thyroid Gland

Bone, Femur
Skin

OBSERVATIONS

Kidney
Mammary Gland

Ovary
Uterus

Vagina

Alveolus
Lobules

Mineralization
Hyperplasia
Hyperplasia
Metestrus
Decidual Reaction
Metestrus
Metestrus

Moderate
Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 175 | TRT#: 1 | SEX: Female | DAY ON TEST: 142 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100175 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Kidney | Oviduct | Pituitary Gland | Skin |
| Spleen | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|---|----------|----------------------------|----------|
| Liver | | Developmental Malformation | |
| [Developmental Malformation TGLS = 1-5] | | | |
| Mammary Gland | Alveolus | Hyperplasia | Moderate |
| | Lobules | Hyperplasia | Minimal |
| Ovary | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 176

TRT#: 1
DOSE: F0 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 142
HISTO: 21320100176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Oviduct | Pituitary Gland | Skin |
| Thymus | Thyroid Gland | | |

MISSING

| | |
|---------------|--------|
| Mammary Gland | Spleen |
|---------------|--------|

OBSERVATIONS

| | | |
|--|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Proestrus | |
| Note: PATHOLOGIST NOTED: POLYOVULAR FOLLICLE | | |
| Uterus | Decidual Reaction | |
| | Proestrus | |
| Vagina | Proestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 177 | TRT#: 1 | SEX: Female | DAY ON TEST: 142 |
| | DOSE: F0 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100177 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Oviduct | Pituitary Gland | Skin |
| Spleen | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|---|----------|----------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Diestrus | |
| Uterus | | Diestrus | |
| Note: PATHOLOGIST NOTED: DECIDUAL REACTION NOT IN SECTION | | | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 178

TRT#: 1

SEX: Female

DAY ON TEST: 142

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Skin

Adrenal Medulla
Mammary Gland
Spleen

Bone Marrow
Oviduct
Thymus

Bone, Femur
Pituitary Gland
Thyroid Gland

OBSERVATIONS

Kidney
Ovary
Uterus

Vagina

Mineralization
Estrus
Decidual Reaction
Estrus
Estrus

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 179

TRT#: 1

SEX: Female

DAY ON TEST: 142

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Spleen

Adrenal Medulla
Oviduct
Thymus

Bone Marrow
Pituitary Gland
Thyroid Gland

Bone, Femur
Skin

OBSERVATIONS

Kidney
Mammary Gland
Ovary
Uterus

Vagina

Bilateral
Alveolus

Nephropathy
Hyperplasia
Diestrus
Decidual Reaction
Diestrus
Diestrus

Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 180

TRT#: 1

SEX: Female

DAY ON TEST: 142

DOSE: F0 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Skin

Adrenal Medulla
Mammary Gland
Spleen

Bone Marrow
Oviduct
Thymus

Bone, Femur
Pituitary Gland
Thyroid Gland

OBSERVATIONS

Kidney
Ovary
Uterus

Vagina

Mineralization
Diestrus
Decidual Reaction
Diestrus
Diestrus

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 181

TRT#: 2

SEX: Female

DAY ON TEST: 142

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Ovary | | Estrus | |
| Uterus | | Decidual Reaction | |
| | | Estrus | |
| Vagina | | Estrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 182

TRT#: 2

SEX: Female

DAY ON TEST: 142

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Kidney | | Mineralization | Mild |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 183

TRT#: 2

SEX: Female

DAY ON TEST: 142

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 184

TRT#: 2

SEX: Female

DAY ON TEST: 142

DOSE: F0 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Kidney

Mammary Gland

Oviduct

OBSERVATIONS

Ovary

Diestrus

Uterus

Decidual Reaction

Vagina

Diestrus

Diestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 185

TRT#: 2
DOSE: F0 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 142
HISTO: 21320100185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland Oviduct

OBSERVATIONS

| | | |
|---|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Proestrus | |
| Uterus | Decidual Reaction | |
| | Proestrus | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | |
| Vagina | Estrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 186

TRT#: 2
DOSE: F0 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 142
HISTO: 21320100186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Mild

Ovary

Diestrus

Uterus

Decidual Reaction

Diestrus

Vagina

Diestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 187 | TRT#: 3 | SEX: Female | DAY ON TEST: 142 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100187 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|----------|
| Kidney | | Mineralization | Moderate |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| | Lobules | Hyperplasia | Minimal |
| Ovary | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 188 | TRT#: 3 | SEX: Female | DAY ON TEST: 142 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100188 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | |
|--------|---------------|---------|
| Kidney | Mammary Gland | Oviduct |
|--------|---------------|---------|

OBSERVATIONS

| | |
|--------|-------------------|
| Ovary | Proestrus |
| Uterus | Decidual Reaction |
| | Proestrus |
| Vagina | Proestrus |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 189 | TRT#: 3 | SEX: Female | DAY ON TEST: 142 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100189 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Ovary | Diestrus | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 190

TRT#: 3

SEX: Female

DAY ON TEST: 142

DOSE: F0 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Diestrus | |
| Uterus | | Decidual Reaction | |
| | | Diestrus | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 191

TRT#: 3

SEX: Female

DAY ON TEST: 142

DOSE: F0 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Minimal

Ovary

Proestrus

Uterus

Decidual Reaction

Proestrus

Vagina

Proestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 192 | TRT#: 3 | SEX: Female | DAY ON TEST: 142 |
| | DOSE: F0 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100192 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|---------------|---------|
| Mammary Gland | Oviduct |
|---------------|---------|

OBSERVATIONS

| | | |
|--------|-------------------|------|
| Kidney | Mineralization | Mild |
| Ovary | Diestrus | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 193

TRT#: 4

SEX: Female

DAY ON TEST: 142

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Skin

Adrenal Medulla
Mammary Gland
Spleen

Bone Marrow
Oviduct
Thymus

Bone, Femur
Pituitary Gland
Thyroid Gland

OBSERVATIONS

Kidney
Ovary
Uterus

Vagina

Mineralization
Metestrus
Decidual Reaction
Metestrus
Keratin Cyst
Metestrus

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 194

TRT#: 4

SEX: Female

DAY ON TEST: 142

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Kidney
Pituitary Gland
Thyroid Gland

Adrenal Medulla
Liver
Skin

Bone Marrow
Mammary Gland
Spleen

Bone, Femur
Oviduct
Thymus

OBSERVATIONS

Ovary
Uterus

Metestrus
Decidual Reaction
Metestrus
Metestrus

Vagina

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 195

TRT#: 4

SEX: Female

DAY ON TEST: 142

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Kidney
Pituitary Gland
Thyroid Gland

Adrenal Medulla
Liver
Skin

Bone Marrow
Mammary Gland
Spleen

Bone, Femur
Oviduct
Thymus

OBSERVATIONS

Ovary
Uterus

Diestrus
Diestrus

Note: PATHOLOGIST NOTED: DECIDUAL REACTION NOT IN SECTION

Vagina

Diestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 196

TRT#: 4

SEX: Female

DAY ON TEST: 142

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Skin

Adrenal Medulla
Mammary Gland
Spleen

Bone Marrow
Oviduct
Thymus

Bone, Femur
Pituitary Gland
Thyroid Gland

OBSERVATIONS

Kidney
Ovary
Uterus

Vagina

Mineralization
Proestrus
Decidual Reaction
Proestrus
Proestrus

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 197

TRT#: 4

SEX: Female

DAY ON TEST: 142

DOSE: F0 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Kidney
Pituitary Gland
Thyroid Gland

Adrenal Medulla
Liver
Skin

Bone Marrow
Mammary Gland
Spleen

Bone, Femur
Oviduct
Thymus

OBSERVATIONS

Ovary
Uterus

Proestrus
Decidual Reaction
Proestrus

Note: TGL # 01 - NO MICROSCOPIC CORRELATE

Vagina

Proestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 198 | TRT#: 4 | SEX: Female | DAY ON TEST: 142 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100198 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-------------|-----------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Kidney | Liver | Oviduct | Pituitary Gland |
| Skin | Spleen | Thymus | Thyroid Gland |

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-99
Test Type: SPECIAL STUDY
Route: DOSED FEED
Species/Strain: Rat/CD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Endocrine disruptor (Genistein)
CAS Number: 446-72-0

Date Report Requested: 10/22/2014
Time Report Requested: 14:12:25
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 199 | TRT#: 4 | SEX: Female | DAY ON TEST: 142 |
| | DOSE: F0 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100199 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------|-----------------|-----------------|-------------|
| Adrenal Cortex | Adrenal Medulla | Bone Marrow | Bone, Femur |
| Liver | Oviduct | Pituitary Gland | Skin |
| Spleen | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|---------|
| Kidney | | Mineralization | Marked |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Diestrus | |
| Uterus | | Decidual Reaction | |
| | | Diestrus | |
| Vagina | | Diestrus | |

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****