

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 273 | TRT#: 5 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100273 |

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, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 274 | TRT#: 5 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100274 |

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 |
| Liver | | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 275 | TRT#: 5 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100275 |

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 |
| Liver | Inflammation | Chronic, Mild |
| | Necrosis | Mild |
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 276

TRT#: 5
DOSE: F1 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 277 | TRT#: 5 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100277 |

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 278

TRT#: 6

SEX: Male

DAY ON TEST: 159

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland

Mammary Gland

Rete Testes

Seminal Vesicle

OBSERVATIONS

Epididymis

Hypospermia

Marked

Kidney

Capsule, Fat

Cyst

Inflammation

Chronic, Minimal

[Cyst TGLS = 1-2]

Prostate, Dorsal Lobe

Inflammation

Suppurative, Minimal

Inflammation

Chronic, Minimal

Prostate, Ventral Lobe

Inflammation

Chronic, Minimal

Testes

Seminif Tub

Degeneration

Marked

[Degeneration TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 279

TRT#: 6

SEX: Male

DAY ON TEST: 159

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Prostate, Dorsal Lobe
Testes

Epididymis
Prostate, Ventral Lobe

Mammary Gland
Rete Testes

Prostate
Seminal Vesicle

OBSERVATIONS

Kidney

Renal Tubule

Dilatation
Inflammation

Minimal
Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 280

TRT#: 6

SEX: Male

DAY ON TEST: 159

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Testes

Epididymis

Mammary Gland

Rete Testes

OBSERVATIONS

Kidney
Prostate, Dorsal Lobe
Prostate, Ventral Lobe
Seminal Vesicle

Inflammation
Inflammation
Inflammation
Dilatation

Chronic, Minimal
Suppurative, Minimal
Chronic, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 281 | TRT#: 6 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100281 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 282

TRT#: 6

SEX: Male

DAY ON TEST: 159

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Rete Testes

Epididymis
Seminal Vesicle

Kidney
Testes

Mammary Gland

OBSERVATIONS

Prostate, Dorsal Lobe

Inflammation

Chronic, Minimal

Prostate, Ventral Lobe

Inflammation

Suppurative, Mild

Inflammation

Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 283 | TRT#: 7 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100283 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 284 | TRT#: 7 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100284 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 285 | TRT#: 7 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100285 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|--------------|-------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| | | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 286 | TRT#: 7 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100286 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|--------|--------------|----------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 287 | TRT#: 8 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100287 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | |
|----------------|-----------------|
| Adrenal Cortex | Adrenal Medulla |
|----------------|-----------------|

OBSERVATIONS

| | | | |
|-----------------------|--------------|----------------|-------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Mild |
| | Renal Tubule | Regeneration | Minimal |
| Mammary Gland | Duct | Hyperplasia | Mild |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Mild |
| | | Inflammation | Suppurative, Mild |
| Spleen | | Hyperplasia | Stromal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 288 | TRT#: 8 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100288 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|-----------------------------|----------|---------------------------|----------------------|
| Liver | | Inflammation | Chronic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Preputial Gland | | Inflammation | Chronic, Mild |
| [Inflammation TGLS = 1-8] | | | |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 289 | TRT#: 8 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100289 |

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 | Spleen |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|------------------------|--------------|----------------|------------------|
| Kidney | | Casts Protein | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Necrosis | Minimal |
| Mammary Gland | Duct | Hyperplasia | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 290 | TRT#: 8 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100290 |

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 | Spleen |
| Testes | Thymus | Thyroid Gland | |

OBSERVATIONS

| | | | |
|------------------------|--------------|----------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Mild |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| | | Necrosis | Minimal |
| Mammary Gland | Duct | Hyperplasia | Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 291 | TRT#: 8 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100291 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|---------------------------|------------------|
| Adrenal Cortex | | Vacuolization Cytoplasmic | Mild |
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| | Renal Tubule | Vacuolization Cytoplasmic | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Moderate |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 292

TRT#: 8

SEX: Male

DAY ON TEST: 159

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100292

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 | Mineralization | Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 293

TRT#: 8

SEX: Male

DAY ON TEST: 159

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100293

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 | | Inflammation | Chronic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| Mammary Gland | Duct | Hyperplasia | Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 294 | TRT#: 8 | SEX: Male | DAY ON TEST: 158 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100294 |

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 |
| Thyroid Gland | | | |

MISSING

| | | | |
|----------|-----------------------|------------------------|--|
| Prostate | Prostate, Dorsal Lobe | Prostate, Ventral Lobe | |
|----------|-----------------------|------------------------|--|

OBSERVATIONS

| | | | |
|---------------|--------------|--------------|------------------|
| Kidney | Renal Tubule | Dilatation | Mild |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 313 | TRT#: 5 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100313 |

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 | Renal Tubule | Dilatation | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 314 | TRT#: 5 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100314 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|-----------------------------|--------------|--------------|------------------|
| Epididymis | | Hyospermia | Marked |
| [Hyospermia TGLS = 2-6.1] | | | |
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |
| Testes | Seminif Tub | Degeneration | Marked |
| [Degeneration TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 315 | TRT#: 5 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100315 |

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 |
| Liver | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | Inflammation | Chronic, Minimal |
| | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 316

TRT#: 5
DOSE: F1 0 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 161
HISTO: 21320100316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 317 | TRT#: 5 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100317 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|--------|------------|--------------|------------------|
| Liver | | Inflammation | Chronic, Minimal |
| Spleen | Adventitia | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 318 | TRT#: 5 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100318 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|----------|---------------------------|------------------|
| Liver | | Vacuolization Cytoplasmic | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Pituitary Gland | | Mineralization | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 319 | TRT#: 5 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100319 |

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 |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic, Minimal |
| | | Necrosis | Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| | [Hepatodiaphragmatic Nodule TGLS = 1-5] | | |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 320

TRT#: 6

SEX: Male

DAY ON TEST: 161

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Prostate, Dorsal Lobe
Testes

Epididymis
Prostate, Ventral Lobe

Mammary Gland
Rete Testes

Prostate
Seminal Vesicle

OBSERVATIONS

Kidney

Renal Tubule

Dilatation
Inflammation

Minimal
Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 321 | TRT#: 6 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100321 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|--------------|----------------------|
| Kidney | Renal Tubule | Dilatation | Mild |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Suppurative, Minimal |
| | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 322 | TRT#: 6 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100322 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 323 | TRT#: 6 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100323 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|--------|---------------|
| Coagulating Gland | Epididymis | Kidney | 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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 324 | TRT#: 6 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100324 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|-----------------------|----------------------|
| Epididymis | | Infiltration Cellular | Lymphocyte, Minimal |
| Kidney | Renal Tubule | Mineralization | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| | | Inflammation | Suppurative, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 325 | TRT#: 7 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100325 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 326 | TRT#: 7 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100326 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|--------|--------------|----------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |
| | Renal Tubule | Regeneration | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 327 | TRT#: 7 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100327 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 328 | TRT#: 7 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100328 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|--------------|----------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Suppurative, Minimal |
| | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 329 | TRT#: 7 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100329 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 330 | TRT#: 7 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100330 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|--------|--------------|----------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 331 | TRT#: 7 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100331 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|--------------|----------------------|
| Kidney | Renal Tubule | Dilatation | Moderate |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Moderate |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 332 | TRT#: 7 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100332 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|----------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 333 | TRT#: 8 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100333 |

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 | Renal Tubule | Dilatation | Mild |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |
| Liver | Renal Tubule | Regeneration | Minimal |
| | | Inflammation | Chronic, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Suppurative, Minimal |
| Seminal Vesicle | | Dilatation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 334 | TRT#: 8 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100334 |

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 | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 335 | TRT#: 8 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100335 |

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 | Cortex | Cyst | |
| | Renal Tubule | Dilatation | Mild |
| | | Inflammation | Chronic, Mild |
| | Renal Tubule | Regeneration | Mild |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |
| Spleen | | Pigmentation | Minimal |
| Testes | Seminif Tub | Degeneration | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 336 | TRT#: 8 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100336 |

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 | | |

OBSERVATIONS

| | | | |
|-----------------------------------|--|---------------------------|----------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| Note: TGL # 01 - NO SECTION TAKEN | | | |
| Liver | | Inflammation | Chronic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Spleen | | Hyperplasia | Stromal, Minimal |
| Thyroid Gland | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 337 | TRT#: 8 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100337 |

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 |
| | Renal Tubule | Mineralization | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Marked |
| | | Inflammation | Chronic, Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 387

TRT#: 5

SEX: Male

DAY ON TEST: 162

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100387

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 | | Casts Protein | Minimal |
| | Renal Tubule | Dilatation | Mild |
| Liver | | Hemorrhage | Minimal |
| | | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 388 | TRT#: 5 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100388 |

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 |
| Liver | Inflammation | Chronic, Minimal |
| | Necrosis | Minimal |
| Prostate, Dorsal Lobe | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Moderate |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 389

TRT#: 5

SEX: Male

DAY ON TEST: 161

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 390 | TRT#: 5 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100390 |

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 | Mineralization | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| | | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 391 | TRT#: 5 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100391 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 392

TRT#: 5

SEX: Male

DAY ON TEST: 161

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100392

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 |
| Liver | Inflammation | Chronic, Minimal |
| | Vacuolization Cytoplasmic | Minimal |
| Spleen | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 393

TRT#: 6

SEX: Male

DAY ON TEST: 162

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Prostate, Ventral Lobe

Epididymis
Rete Testes

Kidney
Testes

Mammary Gland

OBSERVATIONS

Prostate, Dorsal Lobe
Seminal Vesicle

Inflammation
Dilatation

Chronic, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:37
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 394

TRT#: 6

SEX: Male

DAY ON TEST: 162

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Rete Testes

Epididymis
Seminal Vesicle

Mammary Gland
Testes

Prostate, Dorsal Lobe

OBSERVATIONS

Kidney
Prostate, Ventral Lobe

Inflammation
Inflammation

Chronic, Minimal
Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 395 | TRT#: 6 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100395 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|--------|--------------|----------------|---------|
| Kidney | Renal Tubule | Mineralization | Minimal |
|--------|--------------|----------------|---------|

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 396

TRT#: 6

SEX: Male

DAY ON TEST: 162

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Prostate, Dorsal Lobe
Testes

Epididymis
Prostate, Ventral Lobe

Mammary Gland
Rete Testes

Prostate
Seminal Vesicle

OBSERVATIONS

Kidney

Epithelium, Pelvis

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 397

TRT#: 6

SEX: Male

DAY ON TEST: 162

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Prostate, Dorsal Lobe
Testes

Epididymis
Prostate, Ventral Lobe

Mammary Gland
Rete Testes

Prostate
Seminal Vesicle

OBSERVATIONS

Kidney

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 398 | TRT#: 7 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100398 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 399 | TRT#: 7 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100399 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Rete Testes

OBSERVATIONS

| | | | |
|------------------------|--------------|----------------|----------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 400 | TRT#: 7 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100400 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 401 | TRT#: 7 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100401 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 402 | TRT#: 7 | SEX: Male | DAY ON TEST: 160 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100402 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 403 | TRT#: 8 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100403 |

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 | Renal Tubule | Dilatation | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Mild |
| Liver | Renal Tubule | Regeneration | Minimal |
| | | Inflammation | Chronic, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| | Duct | Hyperplasia | Mild |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Seminal Vesicle | | Dilatation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 404 | TRT#: 8 | SEX: Male | DAY ON TEST: 160 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100404 |

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 | Renal Tubule | Dilatation | Minimal |
| | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |
| Liver | Renal Tubule | Regeneration | Minimal |
| | | Inflammation | Chronic, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| | Duct | Hyperplasia | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 405 | TRT#: 8 | SEX: Male | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100405 |

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 | Cortex | Cyst | Multiple |
| | Renal Tubule | Dilatation | Moderate |
| | | Inflammation | Chronic, Mild |
| | Renal Tubule | Regeneration | Mild |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 406 | TRT#: 5 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100406 |

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 407 | TRT#: 5 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100407 |

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, Moderate |
| | | Inflammation | Chronic, Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| Spleen | | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 408

TRT#: 6

SEX: Male

DAY ON TEST: 162

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Rete Testes

Epididymis
Seminal Vesicle

Kidney
Testes

Prostate, Dorsal Lobe

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Prostate, Ventral Lobe

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 409

TRT#: 6

SEX: Male

DAY ON TEST: 161

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Prostate, Dorsal Lobe
Testes

Epididymis
Prostate, Ventral Lobe

Mammary Gland
Rete Testes

Prostate
Seminal Vesicle

OBSERVATIONS

Kidney

Cortex

Cyst
Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 410

TRT#: 6

SEX: Male

DAY ON TEST: 161

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Prostate, Dorsal Lobe

Epididymis
Rete Testes

Kidney
Seminal Vesicle

Mammary Gland
Testes

OBSERVATIONS

Prostate, Ventral Lobe

Inflammation

Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 411 | TRT#: 7 | SEX: Male | DAY ON TEST: 160 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100411 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|-----------------------|------|--------------|-------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| Mammary Gland | Duct | Hyperplasia | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |
| | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 412 | TRT#: 7 | SEX: Male | DAY ON TEST: 160 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100412 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|----------------|----------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 413 | TRT#: 8 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100413 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|-----------------------|--------------|-----------------------|---------------------|
| Epididymis | | Infiltration Cellular | Lymphocyte, Minimal |
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Mild |
| Liver | | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |
| | | Inflammation | Chronic, Minimal |
| Testes | Seminif Tub | Degeneration | Minimal |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 414 | TRT#: 8 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100414 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 415 | TRT#: 8 | SEX: Male | DAY ON TEST: 160 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100415 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|---------------|----------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Moderate |
| | Renal Tubule | Regeneration | Minimal |
| Pituitary Gland | Pars Distalis | Cyst | Multiple |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 416 | TRT#: 8 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100416 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|---------------|----------|--------------|------------------|
| Liver | | Inflammation | Chronic, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| | Duct | Hyperplasia | Mild |
| Thymus | | Hemorrhage | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 417 | TRT#: 8 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100417 |

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 | Thyroid Gland |

OBSERVATIONS

| | | | |
|------------------------|--------------|----------------|-------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Mild |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 439 | TRT#: 5 | SEX: Male | DAY ON TEST: 164 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100439 |

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 |
| Liver | Inflammation | Chronic, Minimal |
| | Vacuolization Cytoplasmic | Minimal |
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 440 | TRT#: 5 | SEX: Male | DAY ON TEST: 164 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100440 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------|-----------------|-----------------|-----------------------|
| 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

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 441 | TRT#: 5 | SEX: Male | DAY ON TEST: 164 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100441 |

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 | Renal Tubule | Regeneration | Minimal |
| Liver | | Vacuolization Cytoplasmic | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |
| Spleen | Red Pulp | Fibrosis | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 442 | TRT#: 5 | SEX: Male | DAY ON TEST: 163 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100442 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | |
|-----------------------|-----------------------|----------------------|
| Epididymis | Infiltration Cellular | Lymphocyte, Minimal |
| Liver | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | Inflammation | Suppurative, Minimal |
| Spleen | Pigmentation | Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 443

TRT#: 5

SEX: Male

DAY ON TEST: 162

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100443

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 | Thyroid Gland | | |

OBSERVATIONS

| | | |
|------------------------|--------------|-------------------|
| Kidney | Inflammation | Chronic, Minimal |
| Liver | Inflammation | Chronic, Minimal |
| Prostate, Dorsal Lobe | Inflammation | Chronic, Minimal |
| | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | Inflammation | Chronic, Minimal |
| Thymus | Hemorrhage | Moderate |

[Hemorrhage TGLS = 1-1]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 444 | TRT#: 5 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100444 |

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

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 445 | TRT#: 6 | SEX: Male | DAY ON TEST: 163 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100445 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 446 | TRT#: 6 | SEX: Male | DAY ON TEST: 163 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100446 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | |
|-----------------------------|--------------|----------------------|
| Kidney | Inflammation | Chronic, Mild |
| [Inflammation TGLS = 1-2] | | |
| Prostate, Ventral Lobe | Inflammation | Chronic, Mild |
| | Inflammation | Suppurative, Minimal |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 447

TRT#: 6

SEX: Male

DAY ON TEST: 163

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Prostate, Dorsal Lobe
Testes

Epididymis
Prostate, Ventral Lobe

Mammary Gland
Rete Testes

Prostate
Seminal Vesicle

OBSERVATIONS

Kidney

Renal Tubule

Dilatation
Inflammation

Mild
Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 448 | TRT#: 6 | SEX: Male | DAY ON TEST: 163 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100448 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|--------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 449

TRT#: 6

SEX: Male

DAY ON TEST: 163

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland
Seminal Vesicle

Epididymis
Testes

Mammary Gland

Rete Testes

OBSERVATIONS

Kidney

Cortex

Cyst

Inflammation

Chronic, Minimal

Renal Tubule

Regeneration

Minimal

Prostate, Dorsal Lobe

Inflammation

Suppurative, Mild

Prostate, Ventral Lobe

Inflammation

Chronic, Mild

Inflammation

Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 450 | TRT#: 6 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100450 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|--------|--------------|----------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Marked |
| | Renal Tubule | Regeneration | Minimal |
| Testes | Seminif Tub | Degeneration | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 451 | TRT#: 6 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100451 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|--------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Mammary Gland | Duct | Hyperplasia | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 452 | TRT#: 7 | SEX: Male | DAY ON TEST: 163 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100452 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|---------------|--------------|--------------|------------------|
| Kidney | Renal Tubule | Dilatation | Mild |
| | | Inflammation | Chronic, Minimal |
| Mammary Gland | Duct | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 453 | TRT#: 7 | SEX: Male | DAY ON TEST: 163 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100453 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|-----------------------|---------------------|
| Kidney | | Infiltration Cellular | Lymphocyte, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 454 | TRT#: 7 | SEX: Male | DAY ON TEST: 163 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100454 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Rete Testes

OBSERVATIONS

| | | | |
|--------|--------------|----------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 455 | TRT#: 7 | SEX: Male | DAY ON TEST: 163 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100455 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|----------------|-------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Prostate, Dorsal Lobe | | Inflammation | Suppurative, Mild |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 456 | TRT#: 7 | SEX: Male | DAY ON TEST: 163 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100456 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|--------------|--------------|------------------|
| Kidney | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Regeneration | Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 457 | TRT#: 7 | SEX: Male | DAY ON TEST: 160 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100457 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 458 | TRT#: 8 | SEX: Male | DAY ON TEST: 163 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100458 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|-----------------------|---------------|----------------|------------------|
| Kidney | Renal Tubule | Dilatation | Mild |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Mild |
| Liver | Renal Tubule | Regeneration | Minimal |
| | | Inflammation | Chronic, Minimal |
| | Mammary Gland | Hyperplasia | Minimal |
| Prostate, Dorsal Lobe | Alveolus | Inflammation | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 459 | TRT#: 8 | SEX: Male | DAY ON TEST: 163 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100459 |

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 |
| | Renal Tubule | Mineralization | Mild |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Moderate |
| Prostate, Dorsal Lobe | | Inflammation | Chronic, Minimal |
| | | Inflammation | Suppurative, Minimal |
| Prostate, Ventral Lobe | | Inflammation | Chronic, Minimal |
| | | Inflammation | Suppurative, Mild |
| Seminal Vesicle | | Dilatation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 460 | TRT#: 8 | SEX: Male | DAY ON TEST: 162 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100460 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|---------------|--------------|-----------------------|---------------------|
| Epididymis | | Infiltration Cellular | Lymphocyte, Minimal |
| Kidney | Capsule, Fat | Cyst | |
| | | Inflammation | Chronic, Minimal |
| | Renal Tubule | Mineralization | Mild |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, Minimal |
| Mammary Gland | Duct | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 461 | TRT#: 8 | SEX: Male | DAY ON TEST: 161 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100461 |

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, Mild |
| | Renal Tubule | Mineralization | Mild |
| | Renal Tubule | Regeneration | Minimal |
| Liver | | Inflammation | Chronic, 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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|----------------------------|---------------------------|
| ANIMAL ID: 260 | TRT#: 1 | SEX: Female | DAY ON TEST: 145 |
| | DOSE: F1 0 PPM | DISP: Natural Death | HISTO: 21320100260 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------|-------------|---------|------|
| Bone Marrow | Bone, Femur | Oviduct | Skin |
| Thymus | | | |

AUTO PRECLUDES DIAG.

| | | | |
|------------------------|--------------------------|------------------------|---------------------------|
| Clitoral Gland | Intestine Large, Cecum | Intestine Large, Colon | Intestine Small, Duodenum |
| Intestine Small, Ileum | Intestine Small, Jejunum | Stomach, Glandular | |

OBSERVATIONS

| | | | |
|------------------------|------------|----------------|-----------------|
| Adrenal Cortex | | Autolysis | Mild |
| Adrenal Medulla | | Autolysis | Mild |
| Brain | Brain Stem | Autolysis | Mild |
| | Cerebellum | Autolysis | Mild |
| | Cerebrum | Autolysis | Mild |
| Heart | | Cardiomyopathy | Focal, Mild |
| Kidney | | Autolysis | Moderate |
| | | Infarct | |
| | | Mineralization | Mild |
| Liver | | Autolysis | Mild |
| Lung | | Congestion | Diffuse, Marked |
| Lymph Node, Mandibular | | Autolysis | Moderate |
| Lymph Node, Mesenteric | | Autolysis | Mild |
| Mammary Gland | Alveolus | Hyperplasia | Marked |
| | Lobules | Hyperplasia | Marked |
| Nose | | Congestion | Diffuse, Marked |
| Ovary | | Autolysis | Minimal |
| Pituitary Gland | | Autolysis | Mild |
| Salivary Glands | | Autolysis | Moderate |
| Spleen | | Autolysis | Mild |
| Stomach, Forestomach | | Autolysis | Marked |
| Thyroid Gland | | Autolysis | Mild |
| Uterus | | Autolysis | Mild |
| Vagina | | Autolysis | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 260

TRT#: 1

SEX: Female

DAY ON TEST: 145

DOSE: F1 0 PPM

DISP: Natural Death

HISTO: 21320100260

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: COD...UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 262 | TRT#: 1 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100262 |

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 | | Cyst | |
| [Cyst TGLS = 2-2] | | | |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Proestrus | |
| Uterus | | Proestrus | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | | |
| Vagina | | Estrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 263

TRT#: 1

SEX: Female

DAY ON TEST: 157

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100263

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

Vagina

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 264

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | |
|--------|--------|
| Ovary | Estrus |
| Uterus | Estrus |
| Vagina | Estrus |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 266

TRT#: 3

SEX: Female

DAY ON TEST: 159

DOSE: F1 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|----------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Ovary | | Proestrus | |
| Uterus | | Proestrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 267

TRT#: 3

SEX: Female

DAY ON TEST: 159

DOSE: F1 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

Mammary Gland

Alveolus

Hyperplasia

Minimal

Ovary

Diestrus

Uterus

Decidual Reaction

Diestrus

Vagina

Diestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 159

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100268

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
Metestrus

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 159

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Oviduct
Thymus

Adrenal Medulla
Pituitary Gland
Thyroid Gland

Bone Marrow
Skin

Bone, Femur
Spleen

OBSERVATIONS

Kidney
Liver
Mammary Gland
Ovary
Uterus

Vagina

Alveolus

Mineralization
Necrosis
Hyperplasia
Diestrus
Decidual Reaction
Diestrus
Diestrus

Moderate
Focal, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 270

TRT#: 4
DOSE: F1 500 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100270

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 | Mild |
| Ovary | | Metestrus | |
| Uterus | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 271 | TRT#: 4 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100271 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|---|---------------|----------------|---------|
| Kidney | | Mineralization | Mild |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Proestrus | |
| Pituitary Gland | Rathkes Cleft | Cyst | |
| Uterus | | Proestrus | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | | |
| Vagina | | Estrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 272

TRT#: 4
DOSE: F1 500 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 158
HISTO: 21320100272

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

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 295

TRT#: 1
DOSE: F1 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 160
HISTO: 21320100295

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 | Inflammation | Chronic Active, Focal, Minimal |
| Ovary | Diestrus | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 296 | TRT#: 1 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100296 |

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 297 | TRT#: 1 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100297 |

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 298 | TRT#: 1 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100298 |

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 |
| | Bilateral | Nephropathy | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Ovary | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Estrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 299

TRT#: 1

SEX: Female

DAY ON TEST: 158

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Oviduct
Thymus

Adrenal Medulla
Pituitary Gland
Thyroid Gland

Bone Marrow
Skin

Bone, Femur
Spleen

OBSERVATIONS

Kidney
Liver
Mammary Gland
Ovary
Uterus

Vagina

Alveolus

Mineralization
Inflammation
Hyperplasia
Metestrus
Decidual Reaction
Metestrus
Metestrus

Minimal
Chronic Active, Focal, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 300

TRT#: 1

SEX: Female

DAY ON TEST: 158

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Mammary Gland
Spleen

Adrenal Medulla
Oviduct
Thymus

Bone Marrow
Pituitary Gland
Thyroid Gland

Bone, Femur
Skin

OBSERVATIONS

Kidney
Liver
Ovary
Uterus

Vagina

Mineralization
Inflammation
Estrus
Decidual Reaction
Estrus
Estrus

Minimal
Chronic Active, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 301

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 160
HISTO: 21320100301

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 302

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Moderate

Ovary

Diestrus

Uterus

Diestrus

Vagina

Diestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 303 | TRT#: 2 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100303 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | |
|------------------------------|----------------|-----------------|
| Kidney | Mineralization | Minimal |
| Ovary | Proestrus | |
| Uterus | Angiectasis | Focal, Moderate |
| | Proestrus | |
| [Angiectasis TGLS = 1-6.1] | | |
| Vagina | Proestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 304

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Minimal

Ovary

Estrus

Uterus

Decidual Reaction

Estrus

Vagina

Estrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 305

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Marked

Ovary

Proestrus

Uterus

Decidual Reaction

Proestrus

Vagina

Proestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 306

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 307

TRT#: 3

SEX: Female

DAY ON TEST: 160

DOSE: F1 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 308 | TRT#: 3 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100308 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 309 | TRT#: 3 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100309 |

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 310

TRT#: 3

SEX: Female

DAY ON TEST: 159

DOSE: F1 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---|----------|-------------------|---------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Mild |
| Ovary | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Note: PATHOLOGIST NOTED: "RESORPTION SITE" NOT ON SLIDE | | | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 311 | TRT#: 4 | SEX: Female | DAY ON TEST: 160 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100311 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | |
|--------|----------------|------|
| Kidney | Mineralization | Mild |
| Ovary | Cyst | |
| | Estrus | |

Note: PATHOLOGIST NOTED: CYST WAS ON THE RIGHT OVARY
[Cyst TGLS = 1-6]

| | | |
|-----------------|---------------|-------------------|
| Pituitary Gland | Rathkes Cleft | Cyst |
| Uterus | | Decidual Reaction |
| | | Estrus |
| Vagina | | Estrus |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 312 | TRT#: 4 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100312 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|----------------|--|----------------|----------------|
| Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| Kidney | | Mineralization | Minimal |
| Ovary | | Proestrus | |
| Uterus | | Proestrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 338

TRT#: 1

SEX: Female

DAY ON TEST: 160

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100338

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

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 339 | TRT#: 1 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100339 |

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 | Moderate |
| Ovary | | Estrus | |
| Uterus | | Decidual Reaction | |
| | | Estrus | |
| Vagina | | Estrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 340

TRT#: 1

SEX: Female

DAY ON TEST: 159

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100340

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
Proestrus
Estrus

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 341 | TRT#: 1 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100341 |

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 | Moderate |
| Ovary | Estrus | |
| Uterus | Decidual Reaction | |
| | Estrus | |
| Vagina | Estrus | |

Note: PATHOLOGIST NOTED: SECTION IS MOSTLY URINARY BLADDER

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 342

TRT#: 1

SEX: Female

DAY ON TEST: 159

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100342

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
Metestrus
Metestrus

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 343

TRT#: 1
DOSE: F1 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100343

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 | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 344

TRT#: 1

SEX: Female

DAY ON TEST: 159

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100344

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
Diestrus
Decidual Reaction
Diestrus
Diestrus

Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 345 | TRT#: 2 | SEX: Female | DAY ON TEST: 160 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100345 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|--------|--------|----------------|---------|
| Kidney | Pelvis | Dilatation | Minimal |
| | | Mineralization | Minimal |

Note: PATHOLOGIST NOTED: DILATATION IN RIGHT KIDNEY

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 346

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 160
HISTO: 21320100346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Minimal

Ovary

Estrus

Uterus

Decidual Reaction

Estrus

Vagina

Estrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 347

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 160
HISTO: 21320100347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 348

TRT#: 3
DOSE: F1 100 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 160
HISTO: 21320100348

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 349

TRT#: 3
DOSE: F1 100 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 160
HISTO: 21320100349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | |
|--------|-------------------|
| Uterus | Decidual Reaction |
| | Estrus |
| Vagina | Estrus |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 350

TRT#: 3
DOSE: F1 100 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Kidney Oviduct

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 351 | TRT#: 3 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100351 |

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 352

TRT#: 3

SEX: Female

DAY ON TEST: 159

DOSE: F1 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | |
|----------------------------|-------------------|---------|
| Kidney | Mineralization | Minimal |
| Mammary Gland | Galactocele | |
| [Galactocele TGLS = 1-8] | | |
| Ovary | Diestrus | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH -

Animal Note: TGL # 01 - NOTED GROSSLY AS LYMPH NODE, INGUINAL WAS MAMMARY GLAND

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 353

TRT#: 4

SEX: Female

DAY ON TEST: 159

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100353

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

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 354

TRT#: 4

SEX: Female

DAY ON TEST: 159

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100354

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
Diestrus
Diestrus

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 355

TRT#: 4
DOSE: F1 500 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100355

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

Mineralization
Diestrus
Decidual Reaction
Diestrus
Diestrus

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 356

TRT#: 4

SEX: Female

DAY ON TEST: 158

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Mammary Gland
Spleen

Adrenal Medulla
Oviduct
Thymus

Bone Marrow
Pituitary Gland
Thyroid Gland

Bone, Femur
Skin

OBSERVATIONS

Kidney

Cyst

Multiple

Mineralization

Minimal

Liver

Inflammation

Chronic Active, Focal, Minimal

Ovary

Diestrus

Uterus

Decidual Reaction

Proestrus

Vagina

Proestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 357

TRT#: 4

SEX: Female

DAY ON TEST: 158

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Mammary Gland
Spleen

Adrenal Medulla
Oviduct
Thymus

Bone Marrow
Pituitary Gland
Thyroid Gland

Bone, Femur
Skin

OBSERVATIONS

Kidney
Liver

Mineralization
Developmental Malformation
Inflammation

Minimal

Chronic Active, Focal, Minimal

[Developmental Malformation TGLS = 1-5]

Ovary
Uterus

Metestrus
Decidual Reaction

Vagina

Metestrus
Metestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 358

TRT#: 4

SEX: Female

DAY ON TEST: 158

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100358

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

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 359

TRT#: 4

SEX: Female

DAY ON TEST: 158

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100359

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

Mineralization
Diestrus
Decidual Reaction
Diestrus
Diestrus

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 360

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 361

TRT#: 2

SEX: Female

DAY ON TEST: 159

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 362

TRT#: 3

SEX: Female

DAY ON TEST: 159

DOSE: F1 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 363 | TRT#: 3 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100363 |

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 364 | TRT#: 3 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100364 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 365 | TRT#: 3 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100365 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|----------------|----------|
| Kidney | | Mineralization | Mild |
| Mammary Gland | Alveolus | Hyperplasia | Moderate |
| | Lobules | Hyperplasia | Mild |
| Ovary | | Metestrus | |
| Uterus | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 366

TRT#: 3

SEX: Female

DAY ON TEST: 159

DOSE: F1 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|--|----------|-------------------|---------|
| Kidney | | Mineralization | Mild |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Note: PATHOLOGIST NOTED: IMPLANTATION SITE NOT PRESENT | | | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 367

TRT#: 3

SEX: Female

DAY ON TEST: 159

DOSE: F1 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|-------------------------|
| Kidney | | Inflammation | Chronic Active, Minimal |
| | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Estrus | |
| Uterus | | Decidual Reaction | |
| | | Estrus | |
| Vagina | | Estrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 368 | TRT#: 3 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100368 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|--|-----|----------------|----------|
| Kidney | | Mineralization | Moderate |
| Ovary | | Proestrus | |
| Skin | Lip | Abscess | |
| [Abscess TGLS = 1-5] | | | |
| Uterus | | Proestrus | |
| Note: TGL # 02 - NO MICROSCOPIC CORRELATE | | | |
| Note: PATHOLOGIST NOTED: IMPLANTATION SITE NOT PRESENT | | | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 369 | TRT#: 3 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100369 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---|----------|-------------------|----------|
| Kidney | | Mineralization | Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Moderate |
| | 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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 370

TRT#: 4

SEX: Female

DAY ON TEST: 161

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Oviduct
Thymus

Adrenal Medulla
Pituitary Gland
Thyroid Gland

Bone Marrow
Skin

Bone, Femur
Spleen

OBSERVATIONS

Kidney
Liver
Mammary Gland
Ovary
Uterus

Vagina

Alveolus

Endometrium

Mineralization
Inflammation
Hyperplasia
Metestrus
Decidual Reaction
Dilatation
Metestrus
Metestrus

Minimal
Chronic Active, Focal, Minimal
Mild

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 371 | TRT#: 4 | SEX: Female | DAY ON TEST: 161 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100371 |

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 | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 372 | TRT#: 4 | SEX: Female | DAY ON TEST: 161 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100372 |

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 | |
| Note: TGL # 01 - NO MICROSCOPIC CORRELATE | | |
| Vagina | Proestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 373 | TRT#: 4 | SEX: Female | DAY ON TEST: 160 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100373 |

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 |
| | Nephropathy | Minimal |
| Ovary | Diestrus | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 374

TRT#: 4

SEX: Female

DAY ON TEST: 159

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100374

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

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 375 | TRT#: 4 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100375 |

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 | | Estrus | |
| Uterus | | Decidual Reaction | |
| | | Estrus | |
| Vagina | | Estrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 376 | TRT#: 4 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100376 |

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 | | Metestrus | |
| Uterus | | Decidual Reaction | |
| | | Metestrus | |
| Vagina | | Metestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 377 | TRT#: 4 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100377 |

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 | Pelvis | Dilatation | Moderate |
| | | Nephropathy | Mild |
| Mammary Gland | Alveolus | 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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 378 | TRT#: 4 | SEX: Female | DAY ON TEST: 159 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100378 |

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 | Inflammation | Chronic Active, Focal, Minimal |
| Ovary | Diestrus | |
| Uterus | Diestrus | |
| Vagina | Diestrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 379

TRT#: 1
DOSE: F1 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 160
HISTO: 21320100379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 380

TRT#: 1

SEX: Female

DAY ON TEST: 160

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100380

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

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 381 | TRT#: 1 | SEX: Female | DAY ON TEST: 160 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100381 |

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 | |
| Note: PATHOLOGIST NOTED: BORDERLINE PROESTRUS | | |
| Uterus | Decidual Reaction | |
| | Diestrus | |
| Note: PATHOLOGIST NOTED: BORDERLINE PROESTRUS | | |
| Vagina | Diestrus | |
| Note: PATHOLOGIST NOTED: BORDERLINE PROESTRUS | | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 382

TRT#: 2

SEX: Female

DAY ON TEST: 160

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|---------------|----------|-------------------|--------|
| Kidney | | Mineralization | Mild |
| Mammary Gland | Alveolus | Hyperplasia | Marked |
| | Lobules | Hyperplasia | Marked |
| Ovary | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 383

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 160
HISTO: 21320100383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 384

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 160
HISTO: 21320100384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Minimal

Ovary

Metestrus

Uterus

Diestrus

Vagina

Metestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 385

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 159
HISTO: 21320100385

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 386

TRT#: 2

SEX: Female

DAY ON TEST: 159

DOSE: F1 5 PPM

DISP: Terminal Sacrifice

HISTO: 21320100386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Oviduct

OBSERVATIONS

| | | | |
|--|-------------|-----------------------|---------------------------------|
| Kidney | | Mineralization | Moderate |
| Mammary Gland | Alveolus | Hyperplasia | Marked |
| | Lobules | Hyperplasia | Marked |
| Ovary | | Cyst | |
| | | Diestrus | |
| [Cyst TGLS = 2-6.2] | | | |
| Uterus | Endometrium | Decidual Reaction | |
| | | Inflammation | Diffuse, Mild |
| | | Inflammation | Chronic Active, Focal, Moderate |
| Note: PATHOLOGIST NOTED: TGL # 01 ASSOCIATED WITH RETAINED FETUS | | | |
| [Inflammation TGLS = 1-6.3] | | | |
| Vagina | | Infiltration Cellular | Polymorphnuclr, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 419

TRT#: 1

SEX: Female

DAY ON TEST: 163

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100419

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

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 420

TRT#: 1

SEX: Female

DAY ON TEST: 163

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Mammary Gland
Spleen

Adrenal Medulla
Oviduct
Thymus

Bone Marrow
Pituitary Gland
Thyroid Gland

Bone, Femur
Skin

OBSERVATIONS

Kidney
Liver
Ovary
Uterus

Mineralization
Inflammation
Diestrus
Decidual Reaction
Diestrus
Diestrus

Minimal
Chronic Active, Focal, Minimal

Vagina

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 421

TRT#: 1

SEX: Female

DAY ON TEST: 163

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100421

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 422 | TRT#: 1 | SEX: Female | DAY ON TEST: 162 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100422 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | |
|-----------------|---------------|-------------------|
| Ovary | | Estrus |
| Pituitary Gland | Rathkes Cleft | Cyst |
| Uterus | | Decidual Reaction |
| | | Estrus |
| Vagina | | Estrus |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 423

TRT#: 1

SEX: Female

DAY ON TEST: 162

DOSE: F1 0 PPM

DISP: Terminal Sacrifice

HISTO: 21320100423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Spleen

Adrenal Medulla
Oviduct
Thymus

Bone Marrow
Pituitary Gland

Bone, Femur
Skin

OBSERVATIONS

Kidney
Mammary Gland
Ovary
Thyroid Gland
Uterus

Vagina

Bilateral

Mineralization
Galactocele
Diestrus
Ultimobranchial Cyst
Decidual Reaction
Diestrus
Diestrus

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 424

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 163
HISTO: 21320100424

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 425

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 163
HISTO: 21320100425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland Oviduct

OBSERVATIONS

| | |
|-------------------------------|-------------------|
| Kidney | Nephroblastoma |
| [Nephroblastoma TGLS = 1-2] | |
| Ovary | Estrus |
| Uterus | Decidual Reaction |
| | Estrus |
| Vagina | Estrus |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 426

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 163
HISTO: 21320100426

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 427 | TRT#: 2 | SEX: Female | DAY ON TEST: 163 |
| | DOSE: F1 5 PPM | DISP: Terminal Sacrifice | HISTO: 21320100427 |

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 428

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 163
HISTO: 21320100428

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 429

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 162
HISTO: 21320100429

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 430

TRT#: 2
DOSE: F1 5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 161
HISTO: 21320100430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Minimal

Ovary

Estrus

Uterus

Decidual Reaction

Estrus

Vagina

Estrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 431 | TRT#: 3 | SEX: Female | DAY ON TEST: 163 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100431 |

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 432 | TRT#: 3 | SEX: Female | DAY ON TEST: 163 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100432 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | |
|--------|-------------------|--------|
| Kidney | Mineralization | Marked |
| Ovary | Estrus | |
| Uterus | Decidual Reaction | |
| | Estrus | |
| Vagina | Estrus | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 433

TRT#: 3
DOSE: F1 100 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 163
HISTO: 21320100433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Moderate

Ovary

Estrus

Uterus

Estrus

Note: PATHOLOGIST NOTED: IMPLANTATION SITES NOT PRESENT

Vagina

Estrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 434

TRT#: 3
DOSE: F1 100 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 163
HISTO: 21320100434

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: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 435 | TRT#: 3 | SEX: Female | DAY ON TEST: 163 |
| | DOSE: F1 100 PPM | DISP: Terminal Sacrifice | HISTO: 21320100435 |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

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

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 436

TRT#: 3

SEX: Female

DAY ON TEST: 163

DOSE: F1 100 PPM

DISP: Terminal Sacrifice

HISTO: 21320100436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Oviduct

OBSERVATIONS

Kidney

Mineralization

Mild

Ovary

Proestrus

Uterus

Decidual Reaction

Proestrus

Vagina

Proestrus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-------------------------|---------------------------------|---------------------------|
| ANIMAL ID: 437 | TRT#: 4 | SEX: Female | DAY ON TEST: 161 |
| | DOSE: F1 500 PPM | DISP: Terminal Sacrifice | HISTO: 21320100437 |

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 | Minimal |
| Liver | | Inflammation | Chronic Active, Focal, Minimal |
| Mammary Gland | Alveolus | Hyperplasia | Minimal |
| Ovary | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

ANIMAL ID: 438

TRT#: 4

SEX: Female

DAY ON TEST: 160

DOSE: F1 500 PPM

DISP: Terminal Sacrifice

HISTO: 21320100438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex
Liver
Skin

Adrenal Medulla
Mammary Gland
Spleen

Bone Marrow
Oviduct
Thymus

Bone, Femur
Pituitary Gland

OBSERVATIONS

Kidney
Ovary
Thyroid Gland

Uterus

Vagina

Bilateral

Mineralization
Metestrus
Infiltration Cellular
Ultimobranhial Cyst
Decidual Reaction
Metestrus
Metestrus

Minimal

Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99930-98
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: 10/18/2014
Time Report Requested: 23:41:38
First Dose M/F: NA / NA
Lab: NCTR

| | | | |
|-----------------------|-----------------------|---------------------------------|---------------------------|
| ANIMAL ID: 462 | TRT#: 1 | SEX: Female | DAY ON TEST: 164 |
| | DOSE: F1 0 PPM | DISP: Terminal Sacrifice | HISTO: 21320100462 |

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 | | Proestrus | |
| Uterus | | Decidual Reaction | |
| | | Proestrus | |
| Vagina | | Proestrus | |

PRIMARY CAUSE OF DEATH -

**** END OF REPORT ****