

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**C Number:** C03554E  
**Lock Date:** 04/11/1994  
**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:** 03554-11

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 1,1,2,2-Tetrachloroethane

**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 00:53:40

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

**Lab:** MBA

**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** UNTREAT CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB1936-1

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Liver                  | * Lung                     | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Pancreas                 | * Parathyroid Gland       | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  | * Thymus                    |
| * Thyroid Gland          | * Trachea                  |                           |                             |

**MISSING**

\* Urinary Bladder

**OBSERVATIONS**

|                          |               |              |                         |
|--------------------------|---------------|--------------|-------------------------|
| * Lymph Node, Mandibular |               | Hemorrhage   | Minimal                 |
| * Pituitary Gland        | Pars Distalis | Cyst         | Minimal                 |
| * Preputial Gland        |               | Inflammation | Chronic Active, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                     |                              |                                 |                        |
|---------------------|------------------------------|---------------------------------|------------------------|
| <b>ANIMAL ID:</b> 2 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92 |
|                     | <b>DOSE:</b> UNTREAT CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-2 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Liver                  | * Lung                     | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Nose                   | * Pancreas                 | * Pituitary Gland         |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testes                    | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

---

**MISSING**

\* Mammary Gland

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

---

|                     |                              |                                 |                        |
|---------------------|------------------------------|---------------------------------|------------------------|
| <b>ANIMAL ID:</b> 3 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92 |
|                     | <b>DOSE:</b> UNTREAT CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-3 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Parathyroid Gland        | * Pituitary Gland         |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testes                    | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

---

**OBSERVATIONS**

|            |        |             |                  |
|------------|--------|-------------|------------------|
| * Kidney   |        | Nephropathy | Chronic, Minimal |
| * Pancreas | Acinus | Atrophy     | Focal, Minimal   |

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                     |                              |                                 |                        |
|---------------------|------------------------------|---------------------------------|------------------------|
| <b>ANIMAL ID:</b> 4 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92 |
|                     | <b>DOSE:</b> UNTREAT CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-4 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Pancreas                 | * Pituitary Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

---

**OBSERVATIONS**

|                   |                |                  |
|-------------------|----------------|------------------|
| * Heart           | Cardiomyopathy | Minimal          |
| * Kidney          | Nephropathy    | Chronic, Minimal |
| * Preputial Gland | Inflammation   | Chronic, Minimal |

---

PRIMARY CAUSE OF DEATH -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 1,1,2,2-Tetrachloroethane

**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 00:53:40

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

**Lab:** MBA

**ANIMAL ID:** 5

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** UNTREAT CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-5

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Mammary Gland            | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

**OBSERVATIONS**

|                          |                |                   |
|--------------------------|----------------|-------------------|
| * Heart                  | Cardiomyopathy | Minimal           |
| * Kidney                 | Nephropathy    | Chronic, Minimal  |
| * Lymph Node, Mandibular | Hyperplasia    | Lymphoid, Minimal |
| * Preputial Gland        | Inflammation   | Chronic, Minimal  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

---

|                     |                              |                                 |                        |
|---------------------|------------------------------|---------------------------------|------------------------|
| <b>ANIMAL ID:</b> 6 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92 |
|                     | <b>DOSE:</b> UNTREAT CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-6 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                   | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testes                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

---

**OBSERVATIONS**

|                          |             |                   |
|--------------------------|-------------|-------------------|
| * Kidney                 | Nephropathy | Chronic, Minimal  |
| * Liver                  |             |                   |
| Note: TGL 1-NCL          |             |                   |
| * Lymph Node, Mandibular | Hemorrhage  | Minimal           |
|                          | Hyperplasia | Lymphoid, Minimal |
| * Thymus                 | Hemorrhage  | Minimal           |

---

PRIMARY CAUSE OF DEATH -

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: UNTREAT CONTROL

DISP: Terminal Sacrifice

HISTO: MB193G-7

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testes                    | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

**OBSERVATIONS**

|          |                           |                           |                             |
|----------|---------------------------|---------------------------|-----------------------------|
| * Kidney | Renal Tubule<br>Bilateral | Dilatation<br>Nephropathy | Minimal<br>Chronic, Minimal |
| * Lung   | Alveolar Epith            | Hyperplasia               | Focal, Mild                 |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                     |                              |                                 |                        |
|---------------------|------------------------------|---------------------------------|------------------------|
| <b>ANIMAL ID:</b> 8 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92 |
|                     | <b>DOSE:</b> UNTREAT CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-8 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Liver                  | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      | * Testes                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

---

**OBSERVATIONS**

|                           |              |                |                  |
|---------------------------|--------------|----------------|------------------|
| * Heart                   |              | Cardiomyopathy | Minimal          |
| * Lung                    | Interstitial | Inflammation   | Chronic, Minimal |
| * Preputial Gland         |              | Inflammation   | Chronic, Minimal |
| * Thymus                  |              | Hemorrhage     | Minimal          |
| [ Hemorrhage TGLS = 1-3 ] |              |                |                  |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                     |                              |                                 |                        |
|---------------------|------------------------------|---------------------------------|------------------------|
| <b>ANIMAL ID:</b> 9 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92 |
|                     | <b>DOSE:</b> UNTREAT CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-9 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Liver                  | * Lung                     | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nose                     | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Testes                 | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

---

**OBSERVATIONS**

|                   |                |                  |
|-------------------|----------------|------------------|
| * Heart           | Cardiomyopathy | Minimal          |
| * Preputial Gland | Inflammation   | Chronic, Minimal |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** UNTREAT CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-10

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Liver                  | * Lung                     | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Pancreas                |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Testes                 | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

**MISSING**

\* Parathyroid Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 11

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-11

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      |
| * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

**OBSERVATIONS**

|            |                 |                |                  |
|------------|-----------------|----------------|------------------|
| * Heart    |                 | Cardiomyopathy | Minimal          |
| * Kidney   |                 | Nephropathy    | Chronic, Minimal |
| * Lung     | Interstitialium | Inflammation   | Chronic, Minimal |
| * Prostate |                 | Inflammation   | Acute, Minimal   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 12 | <b>TRT#:</b> 2               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-12 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Epididymis               | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Liver                  | * Lung                     | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Parathyroid Gland       |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Testes                 | * Thymus                   | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

---

**OBSERVATIONS**

|                 |        |                      |             |
|-----------------|--------|----------------------|-------------|
| * Pancreas      | Acinus | Atrophy              | Focal, Mild |
| * Thyroid Gland |        | Ultimobranchial Cyst | Minimal     |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 13

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-13

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      | * Testes                    |
| * Thymus                 | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

**OBSERVATIONS**

|                   |                |                  |
|-------------------|----------------|------------------|
| * Heart           | Cardiomyopathy | Minimal          |
| * Kidney          | Nephropathy    | Chronic, Minimal |
| * Preputial Gland | Inflammation   | Chronic, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 14

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-14

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      |
| * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Testes                 | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

**OBSERVATIONS**

|                   |              |                |                      |
|-------------------|--------------|----------------|----------------------|
| * Heart           |              | Cardiomyopathy | Minimal              |
| * Kidney          | Bilateral    | Nephropathy    | Chronic, Minimal     |
| * Lung            | Interstitial | Inflammation   | Chronic, Mild        |
| * Pancreas        | Acinus       | Atrophy        | Focal, Minimal       |
| * Preputial Gland |              | Inflammation   | Chronic, Minimal     |
| * Prostate        |              | Inflammation   | Chronic Active, Mild |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                        |
|----------------------|------------------------------|---------------------------------|------------------------|
| <b>ANIMAL ID:</b> 15 | <b>TRT#:</b> 2               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92 |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193-15 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Liver                  | * Lung                     | * Lymph Node, Mandibular  | * Mammary Gland             |
| * Nose                   | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      | * Testes                    |
| * Thymus                 | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

---

**OBSERVATIONS**

|                          |                       |                     |
|--------------------------|-----------------------|---------------------|
| * Heart                  | Cardiomyopathy        | Minimal             |
| * Lymph Node, Mesenteric | Infiltration Cellular | Histiocyte, Minimal |
| * Preputial Gland        | Inflammation          | Chronic, Minimal    |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 16

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-16

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Liver                  | * Lung                     | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nose                     | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Testes                 | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

**OBSERVATIONS**

|                   |                |               |
|-------------------|----------------|---------------|
| * Heart           | Cardiomyopathy | Minimal       |
| * Preputial Gland | Inflammation   | Chronic, Mild |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 17 | <b>TRT#:</b> 2               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-17 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                            |                          |                             |                          |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla        | * Blood Vessel              | * Bone                   |
| * Bone Marrow              | * Brain                  | * Epididymis                | * Esophagus              |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular   | * Mammary Gland          | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Pituitary Gland        | * Preputial Gland           | * Prostate               |
| * Salivary Glands          | * Seminal Vesicle        | * Skin                      | * Spleen                 |
| * Stomach, Forestomach     | * Stomach, Glandular     | * Testes                    | * Thymus                 |
| * Thyroid Gland            | * Trachea                | * Urinary Bladder           |                          |

---

**OBSERVATIONS**

|                           |        |                       |                     |
|---------------------------|--------|-----------------------|---------------------|
| * Heart                   |        | Cardiomyopathy        | Minimal             |
| * Intestine Large, Rectum | Artery | Thrombosis            | Mild                |
| * Kidney                  |        | Nephropathy           | Chronic, Minimal    |
| * Lymph Node, Mesenteric  |        | Infiltration Cellular | Histiocyte, Minimal |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 18 | <b>TRT#:</b> 2               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-18 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      |
| * Parathyroid Gland      | * Pituitary Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

---

**OBSERVATIONS**

|                   |        |                            |                  |
|-------------------|--------|----------------------------|------------------|
| * Heart           |        | Cardiomyopathy             | Mild             |
| * Kidney          |        | Nephropathy                | Chronic, Minimal |
| * Liver           |        | Hepatodiaphragmatic Nodule |                  |
| * Pancreas        | Acinus | Atrophy                    | Focal, Minimal   |
| * Preputial Gland |        | Inflammation               | Chronic, Mild    |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 19 | <b>TRT#:</b> 2               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-19 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Epididymis              | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Testes                 | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

---

**OBSERVATIONS**

|          |           |                |                  |
|----------|-----------|----------------|------------------|
| * Heart  |           | Cardiomyopathy | Minimal          |
| * Kidney | Bilateral | Nephropathy    | Chronic, Minimal |

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 20 | <b>TRT#:</b> 2               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-20 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Blood Vessel            | * Bone                      | * Bone Marrow            |
| * Brain                    | * Epididymis              | * Esophagus                 | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           | * Preputial Gland        |
| * Prostate                 | * Salivary Glands         | * Seminal Vesicle           | * Skin                   |
| * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

---

**OBSERVATIONS**

|                  |                |                         |
|------------------|----------------|-------------------------|
| * Adrenal Cortex | Inflammation   | Chronic, Focal, Minimal |
| * Heart          | Cardiomyopathy | Minimal                 |
| * Kidney         | Nephropathy    | Chronic, Minimal        |
| * Thymus         | Hemorrhage     | Minimal                 |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 21 | <b>TRT#:</b> 3<br><b>DOSE:</b> 18 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-21 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Spleen      | Testes          |          |

---

**OBSERVATIONS**

|       |            |                           |         |
|-------|------------|---------------------------|---------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
|-------|------------|---------------------------|---------|

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 22 | <b>TRT#:</b> 3        | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-22 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |        |          |
|-----------------|-------------|--------|----------|
| Bone            | Bone Marrow | Liver  | Prostate |
| Seminal Vesicle | Spleen      | Testes |          |

---

**OBSERVATIONS**

|                 |              |                      |
|-----------------|--------------|----------------------|
| Preputial Gland | Inflammation | Chronic Active, Mild |
|-----------------|--------------|----------------------|

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 23 | <b>TRT#:</b> 3<br><b>DOSE:</b> 18 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-23 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |          |                 |
|--------|-------------|----------|-----------------|
| Bone   | Bone Marrow | Prostate | Seminal Vesicle |
| Spleen | Testes      |          |                 |

---

**OBSERVATIONS**

|       |            |                           |         |
|-------|------------|---------------------------|---------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
|-------|------------|---------------------------|---------|

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 24 | <b>TRT#:</b> 3        | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-24 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Spleen      | Testes          |          |

---

**OBSERVATIONS**

|       |            |                           |         |
|-------|------------|---------------------------|---------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
|-------|------------|---------------------------|---------|

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 25 | <b>TRT#:</b> 3        | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-25 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Spleen      |                 |          |

---

**OBSERVATIONS**

|       |            |                           |         |
|-------|------------|---------------------------|---------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
|-------|------------|---------------------------|---------|

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 26 | <b>TRT#:</b> 3        | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-26 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |        |          |
|-----------------|-------------|--------|----------|
| Bone            | Bone Marrow | Lung   | Prostate |
| Seminal Vesicle | Spleen      | Testes |          |

---

**OBSERVATIONS**

|       |            |                           |      |
|-------|------------|---------------------------|------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Mild |
|-------|------------|---------------------------|------|

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 27 | <b>TRT#:</b> 3        | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-27 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|          |                 |        |                 |
|----------|-----------------|--------|-----------------|
| Bone     | Bone Marrow     | Liver  | Preputial Gland |
| Prostate | Seminal Vesicle | Spleen | Testes          |

---

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 28 | <b>TRT#:</b> 3<br><b>DOSE:</b> 18 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-28 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

|               |             |          |                 |
|---------------|-------------|----------|-----------------|
| <b>NORMAL</b> |             |          |                 |
| Bone          | Bone Marrow | Prostate | Seminal Vesicle |
| Spleen        | Testes      |          |                 |

---

|                     |            |                           |         |
|---------------------|------------|---------------------------|---------|
| <b>OBSERVATIONS</b> |            |                           |         |
| Liver               | Hepatocyte | Vacuolization Cytoplasmic | Minimal |

---

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 29 | <b>TRT#:</b> 3        | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-29 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |        |          |
|-----------------|-------------|--------|----------|
| Bone            | Bone Marrow | Liver  | Prostate |
| Seminal Vesicle | Spleen      | Testes |          |

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 1,1,2,2-Tetrachloroethane

**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 00:53:40

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

**Lab:** MBA

---

**ANIMAL ID:** 30

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 18 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-30

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Bone Marrow

Prostate

Seminal Vesicle

Spleen

Testes

---

**OBSERVATIONS**

Liver

Hepatocyte

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 31 | <b>TRT#:</b> 4        | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 37 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-31 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Spleen      | Testes          |          |

---

**OBSERVATIONS**

|  |            |                           |      |
|--|------------|---------------------------|------|
| Liver                                    | Hepatocyte | Vacuolization Cytoplasmic | Mild |
| [ Vacuolization Cytoplasmic TGLS = 1-8 ] |            |                           |      |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 32 | <b>TRT#:</b> 4        | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 37 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-32 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Spleen      | Testes          |          |

---

**OBSERVATIONS**

|       |            |                           |      |
|-------|------------|---------------------------|------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Mild |
|-------|------------|---------------------------|------|

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 33 | <b>TRT#:</b> 4<br><b>DOSE:</b> 37 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-33 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Testes      |                 |          |

---

**OBSERVATIONS**

|        |            |                           |         |
|--------|------------|---------------------------|---------|
| Liver  | Hepatocyte | Vacuolization Cytoplasmic | Mild    |
| Spleen |            | Pigmentation              | Minimal |

---

PRIMARY CAUSE OF DEATH

-

---

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 34 | <b>TRT#:</b> 4<br><b>DOSE:</b> 37 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-34 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |          |                 |
|--------|-------------|----------|-----------------|
| Bone   | Bone Marrow | Prostate | Seminal Vesicle |
| Spleen | Testes      |          |                 |

---

**OBSERVATIONS**

|  |            |   |      |
|--|------------|---|------|
| Liver                                      | Hepatocyte | Hepatodiaphragmatic Nodule<br>Vacuolization Cytoplasmic | Mild |
| [ Hepatodiaphragmatic Nodule TGLS = 1-12 ] |            |   |      |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 35 | <b>TRT#:</b> 4        | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 37 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-35 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|      |                 |          |                 |
|------|-----------------|----------|-----------------|
| Bone | Preputial Gland | Prostate | Seminal Vesicle |
|------|-----------------|----------|-----------------|

---

**OBSERVATIONS**

|                                   |                |                    |      |
|-----------------------------------|----------------|--------------------|------|
| Bone Marrow                       |                | Lymphoma Malignant |      |
| Liver                             |                | Lymphoma Malignant |      |
|                                   | Hepatocyte     | Sarcoma            |      |
| [ Lymphoma Malignant TGLS = 2-8 ] |                |                    |      |
| Spleen                            |                | Lymphoma Malignant |      |
| [ Lymphoma Malignant TGLS = 1-8 ] |                |                    |      |
| Testes                            | Germinal Epith | Atrophy            | Mild |
| Thymus                            |                | Lymphoma Malignant |      |

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 36 | <b>TRT#:</b> 4<br><b>DOSE:</b> 37 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-36 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

|               |             |          |                 |
|---------------|-------------|----------|-----------------|
| <b>NORMAL</b> |             |          |                 |
| Bone          | Bone Marrow | Prostate | Seminal Vesicle |
| Spleen        |             |          |                 |

---

|                     |  |                           |         |
|---------------------|--|---------------------------|---------|
| <b>OBSERVATIONS</b> |  |                           |         |
| Liver               | Hepatocyte                               | Vacuolization Cytoplasmic | Mild    |
|                     | [ Vacuolization Cytoplasmic TGLS = 1-8 ] |                           |         |
| Testes              | Germinal Epith                           | Atrophy                   | Minimal |

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 37 | <b>TRT#:</b> 4        | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 37 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-37 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Spleen

---

**OBSERVATIONS**

|       |            |                           |      |
|-------|------------|---------------------------|------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Mild |
|-------|------------|---------------------------|------|

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 38 | <b>TRT#:</b> 4<br><b>DOSE:</b> 37 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-38 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |          |                 |
|--------|-------------|----------|-----------------|
| Bone   | Bone Marrow | Prostate | Seminal Vesicle |
| Spleen | Testes      |          |                 |

---

**OBSERVATIONS**

|   |            |                                  |         |
|---|------------|----------------------------------|---------|
| Liver                                     |            | Hematopoietic Cell Proliferation | Minimal |
|   |            | Hepatodiaphragmatic Nodule       |         |
|   | Hepatocyte | Vacuolization Cytoplasmic        | Mild    |
| [ Hepatodiaphragmatic Nodule TGLS = 1-8 ] |            |                                  |         |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 39 | <b>TRT#:</b> 4        | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 37 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-39 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Spleen      | Testes          |          |

---

**OBSERVATIONS**

|  |            |                           |      |
|--|------------|---------------------------|------|
| Liver                                    | Hepatocyte | Vacuolization Cytoplasmic | Mild |
| [ Vacuolization Cytoplasmic TGLS = 1-8 ] |            |                           |      |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 40 | <b>TRT#:</b> 4<br><b>DOSE:</b> 37 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-40 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |          |                 |
|--------|-------------|----------|-----------------|
| Bone   | Bone Marrow | Prostate | Seminal Vesicle |
| Spleen | Testes      |          |                 |

---

**OBSERVATIONS**

|       |            |                           |      |
|-------|------------|---------------------------|------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Mild |
|-------|------------|---------------------------|------|

---

**PRIMARY CAUSE OF DEATH**

---

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 41 | <b>TRT#:</b> 5<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-41 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Testes      |                 |          |

---

**OBSERVATIONS**

|        |            |                           |         |
|--------|------------|---------------------------|---------|
| Liver  | Hepatocyte | Vacuolization Cytoplasmic | Mild    |
| Spleen |            | Pigmentation              | Minimal |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 42 | <b>TRT#:</b> 5<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-42 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Testes      |                 |          |

---

**OBSERVATIONS**

|        |            |                           |         |
|--------|------------|---------------------------|---------|
| Liver  | Hepatocyte | Vacuolization Cytoplasmic | Mild    |
| Spleen |            | Pigmentation              | Minimal |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 43 | <b>TRT#:</b> 5<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-43 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Testes      |                 |          |

---

**OBSERVATIONS**

|        |            |                           |         |
|--------|------------|---------------------------|---------|
| Liver  | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
| Spleen |            | Pigmentation              | Minimal |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 44 | <b>TRT#:</b> 5<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-44 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

|               |             |          |                 |
|---------------|-------------|----------|-----------------|
| <b>NORMAL</b> |             |          |                 |
| Bone          | Bone Marrow | Prostate | Seminal Vesicle |
| Testes        |             |          |                 |

---

|                     |            |                           |         |
|---------------------|------------|---------------------------|---------|
| <b>OBSERVATIONS</b> |            |                           |         |
| Liver               | Hepatocyte | Vacuolization Cytoplasmic | Mild    |
| Spleen              |            | Pigmentation              | Minimal |

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 45 | <b>TRT#:</b> 5<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-45 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |          |                 |
|--------|-------------|----------|-----------------|
| Bone   | Bone Marrow | Prostate | Seminal Vesicle |
| Spleen | Testes      |          |                 |

---

**OBSERVATIONS**

|       |            |                           |      |
|-------|------------|---------------------------|------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Mild |
|-------|------------|---------------------------|------|

[ Vacuolization Cytoplasmic TGLS = 1-8 ]

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 46 | <b>TRT#:</b> 5<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-46 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Testes      |                 |          |

---

**OBSERVATIONS**

|        |  |                           |         |
|--------|--|---------------------------|---------|
| Liver  | Hepatocyte                               | Hypertrophy               | Minimal |
|        | Hepatocyte                               | Vacuolization Cytoplasmic | Mild    |
|        | [ Vacuolization Cytoplasmic TGLS = 1-8 ] |                           |         |
| Spleen |  | Pigmentation              | Minimal |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 47 | <b>TRT#:</b> 5<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-47 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Testes      |                 |          |

---

**OBSERVATIONS**

|        |            |                           |          |
|--------|------------|---------------------------|----------|
| Liver  | Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| Spleen |            | Pigmentation              | Minimal  |

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 48 | <b>TRT#:</b> 5<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-48 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

|               |             |          |                 |
|---------------|-------------|----------|-----------------|
| <b>NORMAL</b> |             |          |                 |
| Bone          | Bone Marrow | Prostate | Seminal Vesicle |
| Testes        |             |          |                 |

---

|                     |            |                           |         |
|---------------------|------------|---------------------------|---------|
| <b>OBSERVATIONS</b> |            |                           |         |
| Liver               | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
| Spleen              |            | Pigmentation              | Minimal |

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 49 | <b>TRT#:</b> 5<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-49 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

|               |             |          |                 |
|---------------|-------------|----------|-----------------|
| <b>NORMAL</b> |             |          |                 |
| Bone          | Bone Marrow | Prostate | Seminal Vesicle |
| Testes        |             |          |                 |

---

|                     |            |                           |         |
|---------------------|------------|---------------------------|---------|
| <b>OBSERVATIONS</b> |            |                           |         |
| Liver               | Hepatocyte | Vacuolization Cytoplasmic | Mild    |
| Spleen              |            | Pigmentation              | Minimal |

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |   |   |   |
|----------------------|---|---|---|
| <b>ANIMAL ID:</b> 50 | <b>TRT#:</b> 5<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-50 |
|----------------------|---|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Testes      |                 |          |

---

**OBSERVATIONS**

|        |  |                           |         |
|--------|--|---------------------------|---------|
| Liver  | Hepatocyte                               | Vacuolization Cytoplasmic | Mild    |
|        | [ Vacuolization Cytoplasmic TGLS = 1-8 ] |                           |         |
| Spleen |  | Pigmentation              | Minimal |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 51 | <b>TRT#:</b> 6         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-51 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Spleen      | Testes          |          |

---

**OBSERVATIONS**

|       |            |                           |         |
|-------|------------|---------------------------|---------|
| Liver |            | Clear Cell Focus          |         |
|       | Hepatocyte | Hypertrophy               | Minimal |
|       | Hepatocyte | Necrosis                  | Minimal |
|       |            | Pigmentation              | Minimal |
|       | Hepatocyte | Vacuolization Cytoplasmic | Minimal |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 52 | <b>TRT#:</b> 6         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-52 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |          |                 |
|--------|-------------|----------|-----------------|
| Bone   | Bone Marrow | Prostate | Seminal Vesicle |
| Testes |             |          |                 |

---

**OBSERVATIONS**

|                 |            |   |                          |
|-----------------|------------|---|--------------------------|
| Liver           | Hepatocyte | Hypertrophy<br>Mixed Cell Focus           | Mild                     |
|                 | Hepatocyte | Necrosis<br>Pigmentation                  | Minimal<br>Minimal       |
|                 | Hepatocyte | Vacuolization Cytoplasmic<br>Inflammation | Mild<br>Chronic, Minimal |
| Preputial Gland |            |   |                          |
| Spleen          | Red Pulp   | Atrophy<br>Pigmentation                   | Minimal<br>Minimal       |

---

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 53 | <b>TRT#:</b> 6         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-53 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Testes      |                 |          |

---

**OBSERVATIONS**

|  |            |                            |         |
|--|------------|----------------------------|---------|
| Liver                                      |            | Hepatodiaphragmatic Nodule |         |
|  | Hepatocyte | Hypertrophy                | Minimal |
|  | Hepatocyte | Necrosis                   | Minimal |
|  |            | Pigmentation               | Minimal |
| [ Hepatodiaphragmatic Nodule TGLS = 2-12 ] |            |                            |         |
| Spleen                                     | Red Pulp   | Atrophy                    | Minimal |
|  |            | Pigmentation               | Minimal |

---

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 54 | <b>TRT#:</b> 6         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-54 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                 |             |                 |          |
|-----------------|-------------|-----------------|----------|
| Bone            | Bone Marrow | Preputial Gland | Prostate |
| Seminal Vesicle | Testes      |                 |          |

---

**OBSERVATIONS**

|        |            |                                 |                    |
|--------|------------|---------------------------------|--------------------|
| Liver  | Hepatocyte | Hypertrophy<br>Mixed Cell Focus | Minimal            |
|        | Hepatocyte | Necrosis<br>Pigmentation        | Minimal<br>Minimal |
|        | Hepatocyte | Vacuolization Cytoplasmic       | Minimal            |
| Spleen | Red Pulp   | Atrophy<br>Pigmentation         | Minimal<br>Minimal |

---

PRIMARY CAUSE OF DEATH

-

---

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 55 | <b>TRT#:</b> 6         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-55 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|      |          |                 |        |
|------|----------|-----------------|--------|
| Bone | Prostate | Seminal Vesicle | Testes |
|------|----------|-----------------|--------|

---

**OBSERVATIONS**

|                 |   |                            |                          |
|-----------------|---|----------------------------|--------------------------|
| Bone Marrow     |   | Atrophy                    | Minimal                  |
| Liver           |   | Hepatodiaphragmatic Nodule |                          |
|                 | Hepatocyte                                | Hypertrophy                | Mild                     |
|                 | Hepatocyte                                | Necrosis                   | Minimal                  |
|                 | [ Hepatodiaphragmatic Nodule TGLS = 2-8 ] |                            |                          |
| Preputial Gland |   | Inflammation               | Chronic Active, Moderate |
|                 | [ Inflammation TGLS = 1-9A ]              |                            |                          |
| Spleen          | Red Pulp                                  | Atrophy                    | Minimal                  |
|                 |   | Pigmentation               | Minimal                  |

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 56 | <b>TRT#:</b> 6         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-56 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |                 |          |                 |
|--------|-----------------|----------|-----------------|
| Bone   | Preputial Gland | Prostate | Seminal Vesicle |
| Testes |                 |          |                 |

---

**OBSERVATIONS**

|             |  |                           |         |
|-------------|--|---------------------------|---------|
| Bone Marrow |  | Atrophy                   | Minimal |
| Liver       | Hepatocyte                               | Hypertrophy               | Minimal |
|             | Hepatocyte                               | Mixed Cell Focus          |         |
|             | [ Vacuolization Cytoplasmic TGLS = 1-8 ] | Vacuolization Cytoplasmic | Mild    |
| Spleen      |  | Pigmentation              | Minimal |

---

**PRIMARY CAUSE OF DEATH** -

---

Animal Note: CARCASS THIN, TGL 2-NST

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 57 | <b>TRT#:</b> 6         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-57 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |                 |          |                 |
|--------|-----------------|----------|-----------------|
| Bone   | Preputial Gland | Prostate | Seminal Vesicle |
| Testes |                 |          |                 |

---

**OBSERVATIONS**

|             |            |                           |         |
|-------------|------------|---------------------------|---------|
| Bone Marrow |            | Atrophy                   | Minimal |
| Liver       | Hepatocyte | Hypertrophy               | Minimal |
|             | Hepatocyte | Necrosis                  | Minimal |
|             |            | Pigmentation              | Minimal |
|             | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
| Spleen      |            | Pigmentation              | Minimal |

---

**PRIMARY CAUSE OF DEATH**

-

---

Animal Note: CARCASS THIN, TGL 1-NST.

---

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 58 | <b>TRT#:</b> 6         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-58 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |          |                 |
|--------|-------------|----------|-----------------|
| Bone   | Bone Marrow | Prostate | Seminal Vesicle |
| Testes |             |          |                 |

---

**OBSERVATIONS**

|                 |            |                           |               |
|-----------------|------------|---------------------------|---------------|
| Liver           | Hepatocyte | Hypertrophy               | Minimal       |
|                 | Hepatocyte | Vacuolization Cytoplasmic | Mild          |
| Preputial Gland |            | Inflammation              | Chronic, Mild |
| Spleen          |            | Pigmentation              | Minimal       |

---

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 59 | <b>TRT#:</b> 6         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-59 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |                 |                 |
|--------|-------------|-----------------|-----------------|
| Bone   | Bone Marrow | Preputial Gland | Seminal Vesicle |
| Testes |             |                 |                 |

---

**OBSERVATIONS**

|   |            |                           |             |
|---|------------|---------------------------|-------------|
| Liver   |            | Eosinophilic Focus        |             |
|   | Hepatocyte | Hypertrophy               | Mild        |
|   | Hepatocyte | Necrosis                  | Minimal     |
|   |            | Pigmentation              | Minimal     |
|   | Hepatocyte | Vacuolization Cytoplasmic | Minimal     |
| Note: TGL 3,4-NCL<br>[ Vacuolization Cytoplasmic TGLS = 2-8 ] |            |                           |             |
| Prostate  |            | Inflammation              | Acute, Mild |
| Spleen  | Red Pulp   | Atrophy                   | Minimal     |
|   |            | Pigmentation              | Minimal     |

---

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 60 | <b>TRT#:</b> 6         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-60 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |          |                 |
|--------|-------------|----------|-----------------|
| Bone   | Bone Marrow | Prostate | Seminal Vesicle |
| Testes |             |          |                 |

---

**OBSERVATIONS**

|                 |            |                           |               |
|-----------------|------------|---------------------------|---------------|
| Liver           | Hepatocyte | Necrosis                  | Minimal       |
|                 |            | Pigmentation              | Minimal       |
|                 | Hepatocyte | Vacuolization Cytoplasmic | Minimal       |
| Preputial Gland |            | Inflammation              | Chronic, Mild |
| Spleen          |            | Pigmentation              | Minimal       |

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 61

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-61

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Brain                    |
| * Epididymis              | * Esophagus                 | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**OBSERVATIONS**

|   |                         |                            |                  |
|---|-------------------------|----------------------------|------------------|
| * Bone                                    | Metaphysis              | Atrophy                    | Mild             |
| * Bone Marrow                             |                         | Atrophy                    | Minimal          |
| * Heart                                   |                         | Cardiomyopathy             | Minimal          |
| * Kidney                                  | Bilateral, Renal Tubule | Degeneration               | Minimal          |
|   | Bilateral, Renal Tubule | Dilatation                 | Minimal          |
| [ Dilatation TGLS = 3-7 ]                 |                         |                            |                  |
| * Liver                                   |                         | Basophilic Focus           |                  |
|   |                         | Hepatodiaphragmatic Nodule |                  |
|   | Bile Duct               | Hyperplasia                | Mild             |
|   | Hepatocyte              | Hypertrophy                | Moderate         |
|   | Hepatocyte              | Mitotic Alteration         | Mild             |
|   |                         | Mixed Cell Focus           |                  |
|   | Hepatocyte              | Necrosis                   | Minimal          |
|   |                         | Pigmentation               | Mild             |
| [ Hepatodiaphragmatic Nodule TGLS = 2-8 ] |                         |                            |                  |
| * Preputial Gland                         |                         | Atrophy                    | Mild             |
|   |                         | Inflammation               | Chronic, Minimal |
| * Prostate                                |                         | Atrophy                    | Mild             |
| * Seminal Vesicle                         |                         | Atrophy                    | Minimal          |
| * Spleen                                  | Red Pulp                | Atrophy                    | Mild             |
|   |                         | Pigmentation               | Mild             |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 61 | <b>TRT#:</b> 7         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 300 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-61 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

|          |                |         |         |
|----------|----------------|---------|---------|
| * Testes | Germinal Epith | Atrophy | Minimal |
|----------|----------------|---------|---------|

---

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 62

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 300 MG/KG

DISP: Accidentally Killed

HISTO: MB193G-62

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Brain                  |
| * Epididymis               | * Esophagus               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

OBSERVATIONS

|  |                |                    |               |
|--|----------------|--------------------|---------------|
| * Bone   | Metaphysis     | Atrophy            | Moderate      |
| * Bone Marrow                                      |                | Atrophy            | Mild          |
| * Liver  |                | Basophilic Focus   | Multiple      |
|  | Bile Duct      | Hyperplasia        | Mild          |
|  | Hepatocyte     | Hypertrophy        | Moderate      |
|  | Hepatocyte     | Mitotic Alteration | Mild          |
|  |                | Mixed Cell Focus   |               |
|  | Hepatocyte     | Necrosis           | Mild          |
|  |                | Pigmentation       | Mild          |
| Note: TGL 2-NCL<br>[ Mixed Cell Focus TGLS = 3-8 ] |                |                    |               |
| * Preputial Gland                                  |                | Atrophy            | Mild          |
|  |                | Inflammation       | Chronic, Mild |
| * Prostate   |                | Atrophy            | Mild          |
| * Seminal Vesicle                                  |                | Atrophy            | Moderate      |
| [ Atrophy TGLS = 5-9A ]                            |                |                    |               |
| * Spleen   | Lymph Follic   | Atrophy            | Minimal       |
|  | Red Pulp       | Atrophy            | Mild          |
|  |                | Pigmentation       | Mild          |
| * Testes   | Germinal Epith | Atrophy            | Moderate      |
| [ Atrophy TGLS = 4-9 ]                             |                |                    |               |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 1,1,2,2-Tetrachloroethane

**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 00:53:40

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

**Lab:** MBA

---

**ANIMAL ID:** 62

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Accidentally Killed

**HISTO:** MB193G-62

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 63

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-63

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Brain                  |
| * Epididymis               | * Esophagus               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pituitary Gland        |
| * Salivary Glands          | * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

|                                   |                   |                    |                |
|-----------------------------------|-------------------|--------------------|----------------|
| * Bone                            | Metaphysis        | Atrophy            | Moderate       |
| * Bone Marrow                     |                   | Atrophy            | Minimal        |
| * Kidney                          | Bilateral, Pelvis | Dilatation         | Minimal        |
| Note: TGL 7-NCL                   |                   |                    |                |
| * Liver                           | Bile Duct         | Hyperplasia        | Mild           |
|                                   | Hepatocyte        | Hypertrophy        | Moderate       |
|                                   | Hepatocyte        | Mitotic Alteration | Mild           |
|                                   |                   | Mixed Cell Focus   |                |
|                                   | Hepatocyte        | Necrosis           | Minimal        |
|                                   |                   | Pigmentation       | Mild           |
| [ Mixed Cell Focus TGLS = 5,6-8 ] |                   |                    |                |
| * Pancreas                        | Acinus            | Atrophy            | Focal, Minimal |
| * Preputial Gland                 |                   | Atrophy            | Mild           |
| * Prostate                        |                   | Atrophy            | Marked         |
| * Seminal Vesicle                 |                   | Atrophy            | Marked         |
| [ Atrophy TGLS = 4-9A ]           |                   |                    |                |
| * Spleen                          | Red Pulp          | Atrophy            | Minimal        |
|                                   |                   | Pigmentation       | Minimal        |
| * Testes                          | Germinal Epith    | Atrophy            | Marked         |
| [ Atrophy TGLS = 3-9 ]            |                   |                    |                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 63

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-63

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 64

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 300 MG/KG

DISP: Accidentally Killed

HISTO: MB193G-64

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Brain                  |
| * Epididymis               | * Esophagus               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

OBSERVATIONS

|                                       |                |                         |         |
|---------------------------------------|----------------|-------------------------|---------|
| * Bone                                | Metaphysis     | Atrophy                 | Minimal |
| * Bone Marrow                         |                | Atrophy                 | Minimal |
| * Liver                               | Bile Duct      | Hyperplasia             | Minimal |
|                                       | Hepatocyte     | Hypertrophy             | Mild    |
|                                       | Hepatocyte     | Necrosis                | Minimal |
|                                       |                | Pigmentation            | Mild    |
| Note: TGL 2-NCL; TGL 4-NCL; TGL 5-NCL |                |                         |         |
| * Preputial Gland                     |                | Atrophy                 | Mild    |
| * Prostate                            |                | Atrophy                 | Minimal |
| * Seminal Vesicle                     |                | Atrophy                 | Mild    |
|                                       |                | [ Atrophy TGLS = 3-9A ] |         |
| * Spleen                              | Lymph Follic   | Atrophy                 | Minimal |
|                                       | Red Pulp       | Atrophy                 | Minimal |
|                                       |                | Pigmentation            | Minimal |
| * Testes                              | Germinal Epith | Atrophy                 | Minimal |

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 65

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 300 MG/KG

DISP: Accidentally Killed

HISTO: MB193G-65

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Brain                  |
| * Epididymis               | * Esophagus               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

OBSERVATIONS

|  |                |                    |                  |
|--|----------------|--------------------|------------------|
| * Bone   | Metaphysis     | Atrophy            | Mild             |
| * Bone Marrow                                      |                | Atrophy            | Minimal          |
| * Liver  | Bile Duct      | Hyperplasia        | Mild             |
|  | Hepatocyte     | Hypertrophy        | Moderate         |
|  | Hepatocyte     | Mitotic Alteration | Mild             |
|  |                | Mixed Cell Focus   |                  |
|  | Hepatocyte     | Necrosis           | Mild             |
|  |                | Pigmentation       | Mild             |
| Note: TGL 3-NCL<br>[ Mixed Cell Focus TGLS = 4-8 ] |                |                    |                  |
| * Preputial Gland                                  |                | Atrophy            | Minimal          |
|  | Bilateral      | Inflammation       | Chronic, Minimal |
| * Prostate   |                | Atrophy            | Mild             |
| * Seminal Vesicle                                  |                | Atrophy            | Moderate         |
| [ Atrophy TGLS = 2-9A ]                            |                |                    |                  |
| * Spleen   | Lymph Follic   | Atrophy            | Minimal          |
|  | Red Pulp       | Atrophy            | Mild             |
|  |                | Pigmentation       | Mild             |
| * Testes   | Germinal Epith | Atrophy            | Mild             |
| * Thymus   |                | Hemorrhage         | Minimal          |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 1,1,2,2-Tetrachloroethane

**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 00:53:40

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

**Lab:** MBA

---

**ANIMAL ID:** 65

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Accidentally Killed

**HISTO:** MB193G-65

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 66

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-66

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Brain                    |
| * Epididymis              | * Esophagus                 | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**OBSERVATIONS**

|                   |                            |                |               |
|-------------------|----------------------------|----------------|---------------|
| * Bone            | Metaphysis                 | Atrophy        | Moderate      |
| * Bone Marrow     |                            | Atrophy        | Mild          |
| * Heart           |                            | Cardiomyopathy | Minimal       |
| * Kidney          | Bilateral, Renal Tubule    | Degeneration   | Minimal       |
|                   | Bilateral, Renal Tubule    | Dilatation     | Mild          |
|                   | [ Dilatation TGLS = 8-7 ]  |                |               |
| * Liver           | Bile Duct                  | Hyperplasia    | Mild          |
|                   | Hepatocyte                 | Hypertrophy    | Marked        |
|                   | Hepatocyte                 | Necrosis       | Minimal       |
|                   |                            | Pigmentation   | Mild          |
|                   | Note: TGL 4-NCL; TGL 5-NCL |                |               |
|                   | [ Hypertrophy TGLS = 3-8 ] |                |               |
| * Preputial Gland |                            | Atrophy        | Minimal       |
|                   | Bilateral                  | Inflammation   | Chronic, Mild |
| * Prostate        |                            | Atrophy        | Mild          |
| * Seminal Vesicle |                            | Atrophy        | Moderate      |
|                   | [ Atrophy TGLS = 7-9A ]    |                |               |
| * Skin            |                            |                |               |
|                   | Note: TGL 2-NCL            |                |               |
| * Spleen          | Red Pulp                   | Atrophy        | Minimal       |
|                   |                            | Pigmentation   | Mild          |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                        |                                 |                         |
|----------------------|------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 66 | <b>TRT#:</b> 7         | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 300 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-66 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

|                                    |                |         |      |
|------------------------------------|----------------|---------|------|
| * Testes<br>[ Atrophy TGLS = 6-9 ] | Germinal Epith | Atrophy | Mild |
|------------------------------------|----------------|---------|------|

---

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 67

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-67

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Brain                  |
| * Epididymis               | * Esophagus               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| * Pituitary Gland          | * Prostate                | * Salivary Glands           | * Skin                   |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

**OBSERVATIONS**

|                         |                |                    |                  |
|-------------------------|----------------|--------------------|------------------|
| * Bone                  | Metaphysis     | Atrophy            | Mild             |
| * Bone Marrow           |                | Atrophy            | Mild             |
| * Kidney                |                | Mineralization     | Focal, Minimal   |
| * Liver                 | Bile Duct      | Hyperplasia        | Mild             |
|                         | Hepatocyte     | Hypertrophy        | Moderate         |
|                         | Hepatocyte     | Mitotic Alteration | Mild             |
|                         | Hepatocyte     | Necrosis           | Mild             |
|                         |                | Pigmentation       | Mild             |
| Note: TGL 4-NCL         |                |                    |                  |
| * Lung                  | Interstitial   | Inflammation       | Chronic, Minimal |
| * Preputial Gland       |                | Atrophy            | Minimal          |
| * Seminal Vesicle       |                | Atrophy            | Moderate         |
| [ Atrophy TGLS = 5-9A ] |                |                    |                  |
| * Skin                  |                |                    |                  |
| Note: TGL 2-NCL         |                |                    |                  |
| * Spleen                | Lymph Follic   | Atrophy            | Minimal          |
|                         | Red Pulp       | Atrophy            | Minimal          |
| * Testes                | Germinal Epith | Atrophy            | Mild             |
| [ Atrophy TGLS = 3-9 ]  |                |                    |                  |

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 67

**TRT#:** 7

**DOSE:** 300 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 92

**HISTO:** MB193G-67

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 68

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: MB193G-68

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Brain                  |
| * Epididymis               | * Esophagus               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

OBSERVATIONS

|  |                |                    |               |
|--|----------------|--------------------|---------------|
| * Bone   | Metaphysis     | Atrophy            | Minimal       |
| * Bone Marrow                                      |                | Atrophy            | Mild          |
| * Liver  | Bile Duct      | Hyperplasia        | Mild          |
|  | Hepatocyte     | Hypertrophy        | Marked        |
|  | Hepatocyte     | Mitotic Alteration | Mild          |
|  |                | Mixed Cell Focus   |               |
|  | Hepatocyte     | Necrosis           | Mild          |
|  |                | Pigmentation       | Mild          |
| Note: TGL 3-NCL<br>[ Mixed Cell Focus TGLS = 4-8 ] |                |                    |               |
| * Preputial Gland                                  |                | Atrophy            | Minimal       |
|  |                | Inflammation       | Chronic, Mild |
| * Prostate   |                | Atrophy            | Mild          |
| * Seminal Vesicle                                  |                | Atrophy            | Moderate      |
| [ Atrophy TGLS = 5-9A ]                            |                |                    |               |
| * Skin   |                |                    |               |
| Note: TGL 2-NCL                                    |                |                    |               |
| * Spleen   | Red Pulp       | Atrophy            | Minimal       |
|  |                | Pigmentation       | Mild          |
| * Testes   | Germinal Epith | Atrophy            | Moderate      |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 68

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-68

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 69

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: MB193G-69

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Brain                  |
| * Epididymis               | * Esophagus               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Pituitary Gland         | * Salivary Glands           | * Skin                   |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

OBSERVATIONS

|                         |                         |                  |          |
|-------------------------|-------------------------|------------------|----------|
| * Bone                  | Metaphysis              | Atrophy          | Mild     |
| * Bone Marrow           |                         | Atrophy          | Minimal  |
| * Kidney                | Bilateral, Renal Tubule | Dilatation       | Minimal  |
| Note: TGL 4-NCL         |                         |                  |          |
| * Liver                 | Bile Duct               | Basophilic Focus |          |
|                         | Hepatocyte              | Hyperplasia      | Minimal  |
|                         | Hepatocyte              | Hypertrophy      | Moderate |
|                         |                         | Necrosis         | Mild     |
|                         |                         | Pigmentation     | Mild     |
| * Preputial Gland       |                         | Atrophy          | Minimal  |
| * Prostate              |                         | Atrophy          | Mild     |
| * Seminal Vesicle       |                         | Atrophy          | Moderate |
| [ Atrophy TGLS = 5-9A ] |                         |                  |          |
| * Skin                  |                         |                  |          |
| Note: TGL 2-NCL         |                         |                  |          |
| * Spleen                |                         | Pigmentation     | Minimal  |
| * Testes                | Germinal Epith          | Atrophy          | Mild     |
| [ Atrophy TGLS = 3-9 ]  |                         |                  |          |

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 70

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-70

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Brain                  |
| * Epididymis               | * Esophagus               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Pituitary Gland          | * Salivary Glands         | * Skin                      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

|                        |                |                         |                  |
|------------------------|----------------|-------------------------|------------------|
| * Bone                 | Metaphysis     | Atrophy                 | Mild             |
| * Bone Marrow          |                | Atrophy                 | Mild             |
| * Liver                |                | Clear Cell Focus        |                  |
|                        |                | Eosinophilic Focus      |                  |
|                        | Bile Duct      | Hyperplasia             | Minimal          |
|                        | Hepatocyte     | Hypertrophy             | Marked           |
|                        | Hepatocyte     | Necrosis                | Mild             |
|                        |                | Pigmentation            | Minimal          |
| * Lung                 | Interstitium   | Inflammation            | Chronic, Minimal |
| * Preputial Gland      |                | Atrophy                 | Minimal          |
| * Prostate             |                | Atrophy                 | Minimal          |
|                        |                | [ Atrophy TGLS = 2-9A ] |                  |
| * Seminal Vesicle      |                | Atrophy                 | Mild             |
|                        |                | [ Atrophy TGLS = 3-9A ] |                  |
| * Spleen               | Lymph Follic   | Atrophy                 | Minimal          |
|                        | Red Pulp       | Atrophy                 | Mild             |
|                        |                | Pigmentation            | Minimal          |
| * Stomach, Forestomach |                | Inflammation            | Acute, Minimal   |
| * Testes               | Germinal Epith | Atrophy                 | Mild             |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 70

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-70

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

---

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 71 | <b>TRT#:</b> 8               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> UNTREAT CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-71 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone                   |
| * Bone Marrow              | * Brain                   | * Esophagus                 | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Ovary                    | * Pancreas                | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

---

**MISSING**

\* Parathyroid Gland

---

**OBSERVATIONS**

|                  |           |                |               |
|------------------|-----------|----------------|---------------|
| * Clitoral Gland |           | Inflammation   | Chronic, Mild |
| * Heart          |           | Cardiomyopathy | Minimal       |
| * Kidney         | Bilateral | Mineralization | Mild          |
| * Uterus         |           | Hydrometra     | Minimal       |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 72 | <b>TRT#:</b> 8               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> UNTREAT CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-72 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Ovary                    | * Pancreas                | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        | * Uterus                   |                           |                             |

---

**MISSING**

\* Parathyroid Gland

---

**OBSERVATIONS**

|                  |           |                |                  |
|------------------|-----------|----------------|------------------|
| * Clitoral Gland |           | Inflammation   | Chronic, Minimal |
| * Kidney         | Bilateral | Mineralization | Mild             |

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

**ANIMAL ID:** 73

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** UNTREAT CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-73

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Adrenal Medulla  
\* Brain  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus  
\* Uterus

**OBSERVATIONS**

\* Kidney                      Bilateral                      Mineralization                      Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 74

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: UNTREAT CONTROL

DISP: Terminal Sacrifice

HISTO: MB193G-74

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      |
| * Ovary                  | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        | * Uterus                   |                           |                             |

OBSERVATIONS

- |                  |           |                            |                      |
|------------------|-----------|----------------------------|----------------------|
| * Clitoral Gland | Bilateral | Inflammation               | Chronic Active, Mild |
| * Kidney         | Bilateral | Mineralization             | Minimal              |
| * Liver          |           | Hepatodiaphragmatic Nodule |                      |

[ Hepatodiaphragmatic Nodule TGLS = 1-8 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 75

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** UNTREAT CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-75

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | * Uterus                  |

**OBSERVATIONS**

|          |           |                |      |
|----------|-----------|----------------|------|
| * Kidney | Bilateral | Mineralization | Mild |
|----------|-----------|----------------|------|

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 76

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** UNTREAT CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-76

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Adrenal Medulla  
\* Brain  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus  
\* Uterus

**OBSERVATIONS**

\* Kidney

Nephropathy

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 77

TRT#: 8

SEX: Female

DAY ON TEST: 92

DOSE: UNTREAT CONTROL

DISP: Terminal Sacrifice

HISTO: MB193G-77

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Clitoral Gland          | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Ovary                    | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Salivary Glands          | * Skin                    | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Trachea                   |
| * Urinary Bladder        | * Uterus                   |                           |                             |

OBSERVATIONS

- |                 |           |                      |         |
|-----------------|-----------|----------------------|---------|
| * Heart         |           | Cardiomyopathy       | Minimal |
| * Kidney        | Bilateral | Mineralization       | Minimal |
| * Ovary         |           |                      |         |
| Note: TGL 1-NCL |           |                      |         |
| * Thyroid Gland |           | Ultimobranchial Cyst | Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 78 | <b>TRT#:</b> 8               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> UNTREAT CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-78 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Mammary Gland            | * Nose                    |
| * Ovary                     | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Salivary Glands           | * Skin                   | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

---

**OBSERVATIONS**

|   |           |                            |                     |
|---|-----------|----------------------------|---------------------|
| * Kidney                                  | Bilateral | Mineralization             | Minimal             |
| * Liver                                   |           | Hepatodiaphragmatic Nodule |                     |
| [ Hepatodiaphragmatic Nodule TGLS = 1-8 ] |           |                            |                     |
| * Lymph Node, Mesenteric                  |           | Infiltration Cellular      | Histiocyte, Minimal |
| * Thyroid Gland                           |           | Ultimobranchial Cyst       | Minimal             |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 79 | <b>TRT#:</b> 8               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> UNTREAT CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-79 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Mammary Gland           | * Nose                      |
| * Ovary                  | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

---

**OBSERVATIONS**

|                           |           |                       |                     |
|---------------------------|-----------|-----------------------|---------------------|
| * Clitoral Gland          |           | Inflammation          | Chronic, Mild       |
| * Kidney                  | Bilateral | Mineralization        | Minimal             |
| * Lymph Node, Mesenteric  |           | Infiltration Cellular | Histiocyte, Minimal |
| * Uterus                  |           | Hydrometra            | Moderate            |
| [ Hydrometra TGLS = 1-9 ] |           |                       |                     |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 1,1,2,2-Tetrachloroethane

**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 00:53:40

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

**Lab:** MBA

**ANIMAL ID:** 80

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** UNTREAT CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-80

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Ovary                    | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Salivary Glands          | * Skin                    | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

**OBSERVATIONS**

- |                           |           |                |               |
|---------------------------|-----------|----------------|---------------|
| * Clitoral Gland          |           | Inflammation   | Chronic, Mild |
| * Kidney                  | Bilateral | Mineralization | Mild          |
| * Ovary                   |           |                |               |
| Note: TGL 2-NCL           |           |                |               |
| * Uterus                  |           | Hydrometra     | Moderate      |
| [ Hydrometra TGLS = 1-9 ] |           |                |               |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 1,1,2,2-Tetrachloroethane

**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 00:53:40

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

**Lab:** MBA

**ANIMAL ID:** 81

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-81

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Ovary                    | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Salivary Glands          | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        | * Uterus                   |                           |                             |

**MISSING**

\* Clitoral Gland

**OBSERVATIONS**

|          |           |                |         |
|----------|-----------|----------------|---------|
| * Kidney | Bilateral | Mineralization | Minimal |
| * Skin   |           | Hemorrhage     | Mild    |

[ Hemorrhage TGLS = 1-12 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 82

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB193G-82

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Ovary                   | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands         | * Skin                      |
| * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Urinary Bladder          | * Uterus                  |                             |

OBSERVATIONS

|                          |              |                |                         |
|--------------------------|--------------|----------------|-------------------------|
| * Clitoral Gland         | Bilateral    | Inflammation   | Chronic, Mild           |
| * Kidney                 | Bilateral    | Mineralization | Minimal                 |
| * Lung                   | Interstitium | Inflammation   | Chronic, Mild           |
| * Lymph Node, Mandibular |              | Hyperplasia    | Lymphoid, Minimal       |
| * Nose                   |              | Foreign Body   |                         |
|                          |              | Inflammation   | Chronic Active, Minimal |
| * Trachea                |              | Inflammation   | Chronic, Minimal        |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 83 | <b>TRT#:</b> 9               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-83 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        | * Uterus                   |                           |

---

**OBSERVATIONS**

|          |           |                |         |
|----------|-----------|----------------|---------|
| * Kidney | Bilateral | Mineralization | Minimal |
| * Thymus |           | Hemorrhage     | Minimal |

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 84 | <b>TRT#:</b> 9               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-84 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | * Uterus                  |

---

**OBSERVATIONS**

|          |           |                |                  |
|----------|-----------|----------------|------------------|
| * Kidney | Pelvis    | Inflammation   | Chronic, Mild    |
|          | Bilateral | Mineralization | Minimal          |
|          |           | Nephropathy    | Chronic, Minimal |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

**ANIMAL ID:** 85

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-85

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Clitoral Gland          | * Esophagus                 |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             |
| * Nose                   | * Ovary                    | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Salivary Glands          | * Skin                    | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          | * Uterus                  |                             |

**OBSERVATIONS**

|          |           |                |         |
|----------|-----------|----------------|---------|
| * Heart  |           | Cardiomyopathy | Minimal |
| * Kidney | Bilateral | Mineralization | Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 86

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB193G-86

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Salivary Glands           | * Skin                   | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

OBSERVATIONS

|          |   |                            |      |
|----------|---|----------------------------|------|
| * Kidney | Bilateral                                 | Mineralization             | Mild |
| * Liver  |   | Hepatodiaphragmatic Nodule |      |
|          | [ Hepatodiaphragmatic Nodule TGLS = 2-8 ] |                            |      |
| * Ovary  |   | Cyst                       | Mild |
|          | [ Cyst TGLS = 3-9 ]                       |                            |      |
| * Thymus |   | Hemorrhage                 | Mild |
|          | [ Hemorrhage TGLS = 1-3 ]                 |                            |      |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 87 | <b>TRT#:</b> 9               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-87 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                             |                            |                          |                           |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla          | * Blood Vessel           | * Bone                    |
| * Bone Marrow               | * Brain                    | * Clitoral Gland         | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Liver                   |
| * Lung                      | * Lymph Node, Mesenteric   | * Mammary Gland          | * Nose                    |
| * Ovary                     | * Pancreas                 | * Parathyroid Gland      | * Pituitary Gland         |
| * Salivary Glands           | * Skin                     | * Spleen                 | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                   | * Thyroid Gland          | * Trachea                 |
| * Urinary Bladder           | * Uterus                   |                          |                           |

---

**OBSERVATIONS**

|                          |           |                |                  |
|--------------------------|-----------|----------------|------------------|
| * Intestine Small, Ileum |           | Inflammation   | Chronic, Minimal |
| * Kidney                 | Bilateral | Mineralization | Minimal          |
| * Lymph Node, Mandibular |           | Hemorrhage     | Minimal          |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 88

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-88

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  |
| * Thyroid Gland             | * Trachea                |                            |                           |

**OBSERVATIONS**

|                   |  |   |  |
|-------------------|--|---|--|
| * Kidney          | Pelvis, Transit Epithe<br>Bilateral, Pelvis<br>Bilateral | Hyperplasia<br>Inflammation<br>Mineralization<br>Inflammation<br>Hydrometra | Mild<br>Chronic, Mild<br>Mild<br>Chronic, Mild<br>Moderate |
| * Urinary Bladder |  |   |  |
| * Uterus          |  |   |  |

[ Hydrometra TGLS = 1-9 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 89

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-89

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      |
| * Ovary                  | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        | * Uterus                   |                           |                             |

**OBSERVATIONS**

|                  |           |                            |                  |
|------------------|-----------|----------------------------|------------------|
| * Clitoral Gland |           | Inflammation               | Chronic, Minimal |
| * Kidney         | Bilateral | Mineralization             | Mild             |
| * Liver          |           | Hepatodiaphragmatic Nodule |                  |

[ Hepatodiaphragmatic Nodule TGLS = 1-8,8.1 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 90 | <b>TRT#:</b> 9               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-90 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Blood Vessel             | * Bone                    |
| * Bone Marrow               | * Brain                  | * Clitoral Gland           | * Esophagus               |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Mammary Gland            | * Nose                    |
| * Ovary                     | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          | * Uterus                  |

---

**OBSERVATIONS**

|                          |   |                            |                     |
|--------------------------|---|----------------------------|---------------------|
| * Kidney                 | Bilateral                                 | Mineralization             | Minimal             |
| * Liver                  |   | Hepatodiaphragmatic Nodule |                     |
|                          | [ Hepatodiaphragmatic Nodule TGLS = 1-8 ] |                            |                     |
| * Lymph Node, Mesenteric |   | Infiltration Cellular      | Histiocyte, Minimal |
| * Spleen                 |   | Pigmentation               | Minimal             |
| * Thymus                 |   | Hemorrhage                 | Minimal             |

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 91 | <b>TRT#:</b> 10       | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-91 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|       |             |                |       |
|-------|-------------|----------------|-------|
| Bone  | Bone Marrow | Clitoral Gland | Liver |
| Ovary | Spleen      | Uterus         |       |

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 92 | <b>TRT#:</b> 10       | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-92 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |                |       |
|--------|-------------|----------------|-------|
| Bone   | Bone Marrow | Clitoral Gland | Ovary |
| Spleen | Uterus      |                |       |

---

**OBSERVATIONS**

|   |                            |
|---|----------------------------|
| Liver                                     | Hepatodiaphragmatic Nodule |
| [ Hepatodiaphragmatic Nodule TGLS = 1-8 ] |                            |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 93 | <b>TRT#:</b> 10       | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-93 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |                |       |
|--------|-------------|----------------|-------|
| Bone   | Bone Marrow | Clitoral Gland | Ovary |
| Spleen | Uterus      |                |       |

---

**OBSERVATIONS**

|   |                            |
|---|----------------------------|
| Liver                                       | Hepatodiaphragmatic Nodule |
| [ Hepatodiaphragmatic Nodule TGLS = 1,2-8 ] |                            |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |  |   |   |
|----------------------|--|---|---|
| <b>ANIMAL ID:</b> 94 | <b>TRT#:</b> 10<br><b>DOSE:</b> 18 MG/KG | <b>SEX:</b> Female<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-94 |
|----------------------|--|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |       |       |
|--------|-------------|-------|-------|
| Bone   | Bone Marrow | Liver | Ovary |
| Spleen |             |       |       |

---

**OBSERVATIONS**

|                           |  |            |      |
|---------------------------|--|------------|------|
| Uterus                    |  | Hydrometra | Mild |
| [ Hydrometra TGLS = 1-9 ] |  |            |      |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 95 | <b>TRT#:</b> 10       | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-95 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |       |        |
|--------|-------------|-------|--------|
| Bone   | Bone Marrow | Ovary | Spleen |
| Uterus |             |       |        |

---

**OBSERVATIONS**

|   |                            |
|---|----------------------------|
| Liver                                     | Hepatodiaphragmatic Nodule |
| [ Hepatodiaphragmatic Nodule TGLS = 1-8 ] |                            |

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 96 | <b>TRT#:</b> 10       | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-96 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |       |       |
|--------|-------------|-------|-------|
| Bone   | Bone Marrow | Liver | Ovary |
| Spleen | Uterus      |       |       |

---

**OBSERVATIONS**

|                |              |                      |
|----------------|--------------|----------------------|
| Clitoral Gland | Inflammation | Chronic Active, Mild |
|----------------|--------------|----------------------|

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 1,1,2,2-Tetrachloroethane

**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 00:53:40

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

**Lab:** MBA

---

**ANIMAL ID:** 97

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 18 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-97

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Bone Marrow

Clitoral Gland

Liver

Ovary

Spleen

Uterus

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |                       |                                 |                         |
|----------------------|-----------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 98 | <b>TRT#:</b> 10       | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92  |
|                      | <b>DOSE:</b> 18 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-98 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |       |       |
|--------|-------------|-------|-------|
| Bone   | Bone Marrow | Liver | Ovary |
| Spleen | Uterus      |       |       |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                      |  |   |   |
|----------------------|--|---|---|
| <b>ANIMAL ID:</b> 99 | <b>TRT#:</b> 10<br><b>DOSE:</b> 18 MG/KG | <b>SEX:</b> Female<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-99 |
|----------------------|--|---|---|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|       |             |                |       |
|-------|-------------|----------------|-------|
| Bone  | Bone Marrow | Clitoral Gland | Liver |
| Ovary | Spleen      |                |       |

---

**OBSERVATIONS**

|                           |  |            |      |
|---------------------------|--|------------|------|
| Uterus                    |  | Hydrometra | Mild |
| [ Hydrometra TGLS = 1-9 ] |  |            |      |

---

PRIMARY CAUSE OF DEATH -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 100

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 18 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-100

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Bone Marrow

Clitoral Gland

Liver

Ovary

Spleen

Uterus

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                       |  |   |  |
|-----------------------|--|---|--|
| <b>ANIMAL ID:</b> 101 | <b>TRT#:</b> 11<br><b>DOSE:</b> 37 MG/KG | <b>SEX:</b> Female<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-101 |
|-----------------------|--|---|--|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |                |       |
|--------|-------------|----------------|-------|
| Bone   | Bone Marrow | Clitoral Gland | Ovary |
| Spleen | Uterus      |                |       |

---

**OBSERVATIONS**

|       |            |   |                          |
|-------|------------|---|--------------------------|
| Liver | Hepatocyte | Inflammation<br>Vacuolization Cytoplasmic | Chronic, Minimal<br>Mild |
|-------|------------|---|--------------------------|

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                       |  |   |  |
|-----------------------|--|---|--|
| <b>ANIMAL ID:</b> 102 | <b>TRT#:</b> 11<br><b>DOSE:</b> 37 MG/KG | <b>SEX:</b> Female<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-102 |
|-----------------------|--|---|--|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |                |       |
|--------|-------------|----------------|-------|
| Bone   | Bone Marrow | Clitoral Gland | Ovary |
| Spleen |             |                |       |

---

**OBSERVATIONS**

|                           |            |                           |                  |
|---------------------------|------------|---------------------------|------------------|
| Liver                     |            | Inflammation              | Chronic, Minimal |
|                           | Hepatocyte | Vacuolization Cytoplasmic | Mild             |
| Uterus                    |            | Hydrometra                | Mild             |
| [ Hydrometra TGLS = 1-9 ] |            |                           |                  |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                       |  |   |  |
|-----------------------|--|---|--|
| <b>ANIMAL ID:</b> 103 | <b>TRT#:</b> 11<br><b>DOSE:</b> 37 MG/KG | <b>SEX:</b> Female<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-103 |
|-----------------------|--|---|--|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |                |       |
|--------|-------------|----------------|-------|
| Bone   | Bone Marrow | Clitoral Gland | Ovary |
| Spleen | Uterus      |                |       |

---

**OBSERVATIONS**

|   |            |   |      |
|---|------------|---|------|
| Liver                                     | Hepatocyte | Hepatodiaphragmatic Nodule<br>Vacuolization Cytoplasmic | Mild |
| [ Hepatodiaphragmatic Nodule TGLS = 1-8 ] |            |   |      |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                       |  |   |  |
|-----------------------|--|---|--|
| <b>ANIMAL ID:</b> 104 | <b>TRT#:</b> 11<br><b>DOSE:</b> 37 MG/KG | <b>SEX:</b> Female<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-104 |
|-----------------------|--|---|--|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |       |        |
|--------|-------------|-------|--------|
| Bone   | Bone Marrow | Ovary | Spleen |
| Uterus |             |       |        |

---

**OBSERVATIONS**

|       |            |                           |         |
|-------|------------|---------------------------|---------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
|-------|------------|---------------------------|---------|

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                       |                       |                                 |                          |
|-----------------------|-----------------------|---------------------------------|--------------------------|
| <b>ANIMAL ID:</b> 105 | <b>TRT#:</b> 11       | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92   |
|                       | <b>DOSE:</b> 37 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-105 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |       |        |
|--------|-------------|-------|--------|
| Bone   | Bone Marrow | Ovary | Spleen |
| Uterus |             |       |        |

---

**OBSERVATIONS**

|       |            |                           |      |
|-------|------------|---------------------------|------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Mild |
|-------|------------|---------------------------|------|

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 106

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 37 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-106

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone  
Spleen

Bone Marrow

Clitoral Gland

Ovary

**OBSERVATIONS**

Liver

Hepatodiaphragmatic Nodule  
Inflammation  
Vacuolization Cytoplasmic

Chronic, Minimal  
Minimal

Hepatocyte

[ Hepatodiaphragmatic Nodule TGLS = 2-8 ]

Ovary

Note: TGL 1-NCL

Uterus

Hydrometra

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 107

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 37 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-107

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone  
Uterus

Bone Marrow

Ovary

Spleen

**OBSERVATIONS**

Liver

Hepatocyte

Hepatodiaphragmatic Nodule  
Vacuolization Cytoplasmic

Minimal

[ Hepatodiaphragmatic Nodule TGLS = 1-12; 2-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 108

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 37 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-108

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone  
Spleen

Bone Marrow

Clitoral Gland

Ovary

**OBSERVATIONS**

Liver

Inflammation

Chronic, Minimal

Hepatocyte

Vacuolization Cytoplasmic

Mild

Uterus

Hydrometra

Mild

[ Hydrometra TGLS = 1-9 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 109

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 37 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-109

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone  
Uterus

Bone Marrow

Ovary

Spleen

**OBSERVATIONS**

Clitoral Gland  
Liver

Inflammation  
Hepatodiaphragmatic Nodule  
Inflammation  
Vacuolization Cytoplasmic

Chronic Active, Mild  
  
Chronic, Minimal  
Mild

Hepatocyte

[ Hepatodiaphragmatic Nodule TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 110

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 37 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-110

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone

Bone Marrow

Clitoral Gland

Spleen

**OBSERVATIONS**

Liver

Hepatocyte

Vacuolization Cytoplasmic

Mild

Ovary

Cyst

Mild

[ Cyst TGLS = 2-9 ]

Uterus

Hydrometra

Mild

[ Hydrometra TGLS = 1-9 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                       |  |   |  |
|-----------------------|--|---|--|
| <b>ANIMAL ID:</b> 111 | <b>TRT#:</b> 12<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Female<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-111 |
|-----------------------|--|---|--|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|      |             |        |        |
|------|-------------|--------|--------|
| Bone | Bone Marrow | Spleen | Uterus |
|------|-------------|--------|--------|

---

**OBSERVATIONS**

|  |            |                           |                      |
|--|------------|---------------------------|----------------------|
| Clitoral Gland                           |            | Inflammation              | Chronic Active, Mild |
| Liver                                    |            | Inflammation              | Chronic, Mild        |
|  | Hepatocyte | Vacuolization Cytoplasmic | Moderate             |
| [ Vacuolization Cytoplasmic TGLS = 1-8 ] |            |                           |                      |
| Ovary                                    |            | Cyst                      | Minimal              |

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 112

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-112

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone

Bone Marrow

Ovary

Uterus

**OBSERVATIONS**

Clitoral Gland

Inflammation

Chronic Active, Minimal

Liver

Hepatocyte

Hypertrophy

Minimal

Hepatocyte

Inflammation

Chronic, Minimal

Hepatocyte

Necrosis

Minimal

Hepatocyte

Vacuolization Cytoplasmic

Mild

[ Vacuolization Cytoplasmic TGLS = 1-8 ]

Spleen

Pigmentation

Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 113

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-113

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone

Bone Marrow

Clitoral Gland

Ovary

Spleen

Uterus

**OBSERVATIONS**

Liver

Hepatocyte

Hypertrophy

Minimal

Inflammation

Chronic, Minimal

Hepatocyte

Vacuolization Cytoplasmic

Mild

[ Vacuolization Cytoplasmic TGLS = 1-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 114

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-114

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone

Bone Marrow

Ovary

Spleen

**OBSERVATIONS**

Clitoral Gland

Inflammation

Chronic Active, Mild

Liver

Hepatocyte

Vacuolization Cytoplasmic

Mild

[ Vacuolization Cytoplasmic TGLS = 2-8 ]

Uterus

Hydrometra

Moderate

[ Hydrometra TGLS = 1-9 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                       |  |   |  |
|-----------------------|--|---|--|
| <b>ANIMAL ID:</b> 115 | <b>TRT#:</b> 12<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Female<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-115 |
|-----------------------|--|---|--|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |                |       |
|--------|-------------|----------------|-------|
| Bone   | Bone Marrow | Clitoral Gland | Ovary |
| Uterus |             |                |       |

---

**OBSERVATIONS**

|  |            |   |                          |
|--|------------|---|--------------------------|
| Liver                                    | Hepatocyte | Inflammation<br>Vacuolization Cytoplasmic | Chronic, Minimal<br>Mild |
| [ Vacuolization Cytoplasmic TGLS = 1-8 ] |            |   |                          |
| Spleen                                   |            | Pigmentation                              | Minimal                  |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 116

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-116

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone

Bone Marrow

Clitoral Gland

Spleen

**OBSERVATIONS**

Liver

Hepatocyte

Hypertrophy

Minimal

Hepatocyte

Vacuolization Cytoplasmic

Mild

[ Vacuolization Cytoplasmic TGLS = 3-8 ]

Ovary

Cyst

Mild

[ Cyst TGLS = 1-9 ]

Uterus

Hydrometra

Moderate

[ Hydrometra TGLS = 2-9 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 117

**TRT#:** 12  
**DOSE:** 75 MG/KG

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

**DAY ON TEST:** 92  
**HISTO:** MB193G-117

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|        |             |                |       |
|--------|-------------|----------------|-------|
| Bone   | Bone Marrow | Clitoral Gland | Ovary |
| Spleen |             |                |       |

**OBSERVATIONS**

|                           |            |                           |                  |
|---------------------------|------------|---------------------------|------------------|
| Liver                     |            | Inflammation              | Chronic, Minimal |
|                           | Hepatocyte | Vacuolization Cytoplasmic | Mild             |
| Uterus                    |            | Hydrometra                | Moderate         |
| [ Hydrometra TGLS = 1-9 ] |            |                           |                  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 118

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-118

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone

Bone Marrow

Ovary

Uterus

**OBSERVATIONS**

Clitoral Gland

Inflammation

Chronic Active, Minimal

Liver

Hepatocyte

Hypertrophy

Minimal

Hepatocyte

Vacuolization Cytoplasmic

Moderate

[ Vacuolization Cytoplasmic TGLS = 1-8 ]

Spleen

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                       |  |   |  |
|-----------------------|--|---|--|
| <b>ANIMAL ID:</b> 119 | <b>TRT#:</b> 12<br><b>DOSE:</b> 75 MG/KG | <b>SEX:</b> Female<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 92<br><b>HISTO:</b> MB193G-119 |
|-----------------------|--|---|--|

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|        |             |                |       |
|--------|-------------|----------------|-------|
| Bone   | Bone Marrow | Clitoral Gland | Ovary |
| Spleen |             |                |       |

---

**OBSERVATIONS**

|        |  |                           |                  |
|--------|--|---------------------------|------------------|
| Liver  |  | Inflammation              | Chronic, Minimal |
|        | Hepatocyte                               | Vacuolization Cytoplasmic | Mild             |
|        | [ Vacuolization Cytoplasmic TGLS = 1-8 ] |                           |                  |
| Uterus |  | Hydrometra                | Mild             |

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 120

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 75 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-120

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone

Bone Marrow

Clitoral Gland

Uterus

**OBSERVATIONS**

Liver

Hepatocyte

Vacuolization Cytoplasmic

Mild

Ovary

Cyst

Mild

Spleen

Pigmentation

Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 121

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: MB193G-121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Spleen

OBSERVATIONS

|   |                   |                            |         |
|---|-------------------|----------------------------|---------|
| Bone                                      | Metaphysis        | Atrophy                    | Mild    |
| Bone Marrow                               |                   | Atrophy                    | Minimal |
| Clitoral Gland                            |                   | Atrophy                    | Minimal |
| Liver                                     |                   | Basophilic Focus           |         |
|   |                   | Eosinophilic Focus         |         |
|   |                   | Hepatodiaphragmatic Nodule |         |
|   | Bile Duct         | Hyperplasia                | Minimal |
|   | Hepatocyte        | Hypertrophy                | Minimal |
|   | Hepatocyte        | Mitotic Alteration         | Mild    |
|   |                   | Mixed Cell Focus           |         |
|   | Hepatocyte        | Necrosis                   | Minimal |
|   |                   | Pigmentation               | Minimal |
| Note: TGL 2-NCL                           |                   |                            |         |
| [ Hepatodiaphragmatic Nodule TGLS = 5-8 ] |                   |                            |         |
| [ Mixed Cell Focus TGLS = 3,4-8 ]         |                   |                            |         |
| Ovary                                     | Interstitial Cell | Cytoplasmic Alteration     | Minimal |
| Uterus                                    |                   | Atrophy                    | Mild    |

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 122

**TRT#:** 13

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-122

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow

Clitoral Gland

Ovary

Spleen

**OBSERVATIONS**

Bone

Metaphysis

Atrophy

Minimal

Liver

Eosinophilic Focus

Hepatocyte

Hypertrophy

Mild

Hepatocyte

Mitotic Alteration

Mild

Mixed Cell Focus

Hepatocyte

Necrosis

Minimal

Pigmentation

Mild

[ Mixed Cell Focus TGLS = 2,3-8 ]

Uterus

Atrophy

Minimal

Hydrometra

Minimal

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11  
Test Type: 90-DAY  
Route: DOSED FEED  
Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: 1,1,2,2-Tetrachloroethane  
CAS Number: 79-34-5

Date Report Requested: 10/21/2014  
Time Report Requested: 00:53:40  
First Dose M/F: NA / NA  
Lab: MBA

ANIMAL ID: 123

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: MB193G-123

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow

Clitoral Gland

Ovary

Uterus

**OBSERVATIONS**

Bone

Metaphysis

Atrophy

Mild

Liver

Hepatocyte

Hypertrophy

Mild

Hepatocyte

Mitotic Alteration

Mild

Mixed Cell Focus

Hepatocyte

Necrosis

Minimal

Pigmentation

Mild

Hepatocyte

Vacuolization Cytoplasmic

Minimal

[ Vacuolization Cytoplasmic TGLS = 2-8 ]

Spleen

Pigmentation

Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 124

**TRT#:** 13

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 150 MG/KG

**DISP:** Accidentally Killed

**HISTO:** MB193G-124

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                        |                          |                         |
|---------------------------|------------------------|--------------------------|-------------------------|
| Adrenal Cortex            | Adrenal Medulla        | Blood Vessel             | Brain                   |
| Ear                       | Esophagus              | Eye                      | Harderian Gland         |
| Heart                     | Intestine Large, Cecum | Intestine Large, Colon   | Intestine Large, Rectum |
| Intestine Small, Duodenum | Intestine Small, Ileum | Intestine Small, Jejunum | Islets, Pancreatic      |
| Lacrimal Gland            | Larynx                 | Lung                     | Lymph Node              |
| Lymph Node, Mandibular    | Lymph Node, Mesenteric | Mammary Gland            | Mesentery               |
| Nose                      | Oral Mucosa            | Ovary                    | Oviduct                 |
| Pancreas                  | Parathyroid Gland      | Peripheral Nerve         | Peritoneum              |
| Pituitary Gland           | Pleura                 | Salivary Glands          | Skeletal Muscle         |
| Skin                      | Spinal Cord            | Stomach, Forestomach     | Stomach, Glandular      |
| Thymus                    | Thyroid Gland          | Tissue NOS               | Tongue                  |
| Tooth                     | Trachea                | Ureter                   | Urethra                 |
| Urinary Bladder           | Vagina                 | Zymbal's Gland           |                         |

**OBSERVATIONS**

|                 |            |                  |                         |
|-----------------|------------|------------------|-------------------------|
| Bone            | Metaphysis | Atrophy          | Mild                    |
| Bone Marrow     |            | Atrophy          | Minimal                 |
| Clitoral Gland  |            | Inflammation     | Chronic Active, Minimal |
| Kidney          | Bilateral  | Mineralization   | Minimal                 |
| Liver           | Hepatocyte | Hypertrophy      | Mild                    |
|                 | Hepatocyte | Mixed Cell Focus |                         |
|                 |            | Necrosis         | Minimal                 |
|                 |            | Pigmentation     | Minimal                 |
| Note: TGL 2-NCL |            |                  |                         |
| Spleen          |            | Pigmentation     | Mild                    |
| Uterus          |            | Atrophy          | Mild                    |

**PRIMARY CAUSE OF DEATH** -

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                       |                        |                                 |                          |
|-----------------------|------------------------|---------------------------------|--------------------------|
| <b>ANIMAL ID:</b> 125 | <b>TRT#:</b> 13        | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92   |
|                       | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-125 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland

---

**OBSERVATIONS**

|             |                   |                        |         |
|-------------|-------------------|------------------------|---------|
| Bone        | Metaphysis        | Atrophy                | Mild    |
| Bone Marrow |                   | Atrophy                | Minimal |
| Liver       |                   | Eosinophilic Focus     |         |
|             | Hepatocyte        | Hypertrophy            | Mild    |
|             |                   | Mixed Cell Focus       |         |
|             | Hepatocyte        | Necrosis               | Minimal |
|             |                   | Pigmentation           | Minimal |
| Ovary       | Interstitial Cell | Cytoplasmic Alteration | Minimal |
| Spleen      |                   | Pigmentation           | Minimal |
| Uterus      |                   | Atrophy                | Minimal |

---

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 126

**TRT#:** 13

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-126

**OBSERVATIONS**

|                |   |                            |                      |
|----------------|---|----------------------------|----------------------|
| Bone           | Metaphysis                                  | Atrophy                    | Mild                 |
| Bone Marrow    |   | Atrophy                    | Minimal              |
| Clitoral Gland |   | Inflammation               | Chronic Active, Mild |
| Liver          |   | Hepatodiaphragmatic Nodule |                      |
|                | Bile Duct                                   | Hyperplasia                | Minimal              |
|                | Hepatocyte                                  | Hypertrophy                | Mild                 |
|                |   | Mixed Cell Focus           |                      |
|                |   | Pigmentation               | Minimal              |
|                | Hepatocyte                                  | Vacuolization Cytoplasmic  | Minimal              |
|                | [ Hepatodiaphragmatic Nodule TGLS = 2,3-8 ] |                            |                      |
|                | [ Vacuolization Cytoplasmic TGLS = 4-8 ]    |                            |                      |
| Ovary          | Interstit Cell                              | Cytoplasmic Alteration     | Minimal              |
| Spleen         |   | Pigmentation               | Minimal              |
| Uterus         |   | Atrophy                    | Minimal              |
|                | [ Atrophy TGLS = 5-9 ]                      |                            |                      |

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 127

**TRT#:** 13

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-127

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone

Bone Marrow

Ovary

**OBSERVATIONS**

Clitoral Gland

Inflammation

Chronic Active, Mild

Liver

Clear Cell Focus

Bile Duct

Hyperplasia

Minimal

Hepatocyte

Hypertrophy

Mild

Pigmentation

Minimal

Hepatocyte

Vacuolization Cytoplasmic

Mild

[ Clear Cell Focus TGLS = 2-8 ]

Spleen

Pigmentation

Minimal

Uterus

Atrophy

Minimal

[ Atrophy TGLS = 3-9 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

|                       |                        |                                 |                          |
|-----------------------|------------------------|---------------------------------|--------------------------|
| <b>ANIMAL ID:</b> 128 | <b>TRT#:</b> 13        | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 92   |
|                       | <b>DOSE:</b> 150 MG/KG | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> MB193G-128 |

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|             |       |        |
|-------------|-------|--------|
| Bone Marrow | Ovary | Uterus |
|-------------|-------|--------|

---

**OBSERVATIONS**

|                                   |            |                    |                          |
|-----------------------------------|------------|--------------------|--------------------------|
| Bone                              | Metaphysis | Atrophy            | Minimal                  |
| Clitoral Gland                    |            | Inflammation       | Chronic Active, Moderate |
| [ Inflammation TGLS = 2-9,9.1 ]   |            |                    |                          |
| Liver                             |            | Clear Cell Focus   |                          |
|                                   |            | Eosinophilic Focus |                          |
|                                   | Bile Duct  | Hyperplasia        | Minimal                  |
|                                   | Hepatocyte | Hypertrophy        | Minimal                  |
|                                   |            | Pigmentation       | Minimal                  |
| Note: TGL 3-NCL                   |            |                    |                          |
| [ Clear Cell Focus TGLS = 4,5-8 ] |            |                    |                          |
| Spleen                            |            | Pigmentation       | Minimal                  |

---

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 129

**TRT#:** 13

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 150 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-129

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow

Clitoral Gland

Ovary

Uterus

**OBSERVATIONS**

Bone

Metaphysis

Atrophy

Mild

Liver

Hepatocyte

Hypertrophy

Minimal

Mixed Cell Focus

Hepatocyte

Necrosis

Minimal

Pigmentation

Hepatocyte

Vacuolization Cytoplasmic

Minimal

[ Vacuolization Cytoplasmic TGLS = 2-8 ]

Spleen

Pigmentation

Minimal

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 130

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 150 MG/KG

DISP: Terminal Sacrifice

HISTO: MB193G-130

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow Ovary

**OBSERVATIONS**

|                                   |            |                  |                      |
|-----------------------------------|------------|------------------|----------------------|
| Bone                              | Metaphysis | Atrophy          | Mild                 |
| Clitoral Gland                    |            | Inflammation     | Chronic Active, Mild |
| Liver                             | Bile Duct  | Hyperplasia      | Minimal              |
|                                   | Hepatocyte | Hypertrophy      | Mild                 |
|                                   |            | Mixed Cell Focus |                      |
|                                   | Hepatocyte | Necrosis         | Minimal              |
|                                   |            | Pigmentation     | Mild                 |
| Note: TGL 2-NCL                   |            |                  |                      |
| [ Mixed Cell Focus TGLS = 3,4-8 ] |            |                  |                      |
| Spleen                            |            | Pigmentation     | Minimal              |
| Uterus                            |            | Atrophy          | Mild                 |
| [ Atrophy TGLS = 1-9 ]            |            |                  |                      |

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 5-NST

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 131

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: MB193G-131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Brain                    |
| * Esophagus               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

|   |                   |                        |                  |
|---|-------------------|------------------------|------------------|
| * Bone  | Metaphysis        | Atrophy                | Moderate         |
| * Bone Marrow   |                   | Atrophy                | Minimal          |
| * Clitoral Gland  |                   | Atrophy                | Minimal          |
|   | Bilateral         | Inflammation           | Chronic, Minimal |
| * Kidney  | Bilateral         | Mineralization         | Minimal          |
| * Liver   | Bile Duct         | Hyperplasia            | Minimal          |
|   | Hepatocyte        | Hypertrophy            | Mild             |
|   | Hepatocyte        | Mitotic Alteration     | Minimal          |
|   | Hepatocyte        | Necrosis               | Minimal          |
|   |                   | Pigmentation           | Mild             |
| Note: TGL 3-NCL; TGL 4-NCL<br>[ Pigmentation TGLS = 2-8 ] |                   |                        |                  |
| * Ovary   | Interstitial Cell | Cytoplasmic Alteration | Mild             |
| * Spleen  | Red Pulp          | Atrophy                | Mild             |
|   |                   | Pigmentation           | Minimal          |
| * Uterus  |                   | Atrophy                | Moderate         |
| [ Atrophy TGLS = 5-9 ]                                    |                   |                        |                  |

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 132

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: MB193G-132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone Marrow            |
| * Brain                    | * Esophagus               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Pituitary Gland         | * Salivary Glands           | * Skin                   |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

OBSERVATIONS

|                             |                         |                        |                  |
|-----------------------------|-------------------------|------------------------|------------------|
| * Bone                      | Metaphysis              | Atrophy                | Minimal          |
| * Clitoral Gland            |                         | Inflammation           | Chronic, Minimal |
| * Kidney                    | Bilateral, Renal Tubule | Degeneration           | Mild             |
|                             | Bilateral               | Mineralization         | Minimal          |
| [ Degeneration TGLS = 3-7 ] |                         |                        |                  |
| * Liver                     |                         | Clear Cell Focus       |                  |
|                             |                         | Eosinophilic Focus     |                  |
|                             | Bile Duct               | Hyperplasia            | Mild             |
|                             | Hepatocyte              | Hypertrophy            | Moderate         |
|                             | Hepatocyte              | Mitotic Alteration     | Mild             |
|                             | Hepatocyte              | Necrosis               | Minimal          |
|                             |                         | Pigmentation           | Mild             |
| Note: TGL 2-NCL             |                         |                        |                  |
| * Ovary                     | Interstitial Cell       | Cytoplasmic Alteration | Mild             |
| * Spleen                    | Red Pulp                | Atrophy                | Minimal          |
|                             |                         | Pigmentation           | Minimal          |
| * Uterus                    |                         | Atrophy                | Mild             |
| [ Atrophy TGLS = 1-9 ]      |                         |                        |                  |

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 4-NST

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 133

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-133

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Brain                    |
| * Esophagus               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

**OBSERVATIONS**

|                  |                                 |                        |               |
|------------------|---------------------------------|------------------------|---------------|
| * Bone           | Metaphysis                      | Atrophy                | Moderate      |
| * Bone Marrow    |                                 | Atrophy                | Minimal       |
| * Clitoral Gland |                                 | Atrophy                | Mild          |
|                  | Bilateral                       | Inflammation           | Chronic, Mild |
| * Kidney         | Renal Tubule                    | Degeneration           | Minimal       |
|                  | Bilateral                       | Mineralization         | Mild          |
| * Liver          |                                 | Clear Cell Focus       |               |
|                  | Bile Duct                       | Hyperplasia            | Mild          |
|                  | Hepatocyte                      | Hypertrophy            | Moderate      |
|                  | Hepatocyte                      | Mitotic Alteration     | Mild          |
|                  | Hepatocyte                      | Necrosis               | Minimal       |
|                  |                                 | Pigmentation           | Mild          |
|                  | [ Clear Cell Focus TGLS = 2-8 ] |                        |               |
| * Ovary          | Interstitial Cell               | Cytoplasmic Alteration | Moderate      |
| * Spleen         | Red Pulp                        | Atrophy                | Mild          |
|                  |                                 | Pigmentation           | Mild          |
|                  | Note: TGL 4-NCL                 |                        |               |
| * Uterus         |                                 | Atrophy                | Mild          |
|                  | [ Atrophy TGLS = 5-9 ]          |                        |               |

**PRIMARY CAUSE OF DEATH** -

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 133

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-133

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 134

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: MB193G-134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Brain                    |
| * Esophagus               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

MISSING

\* Parathyroid Gland

OBSERVATIONS

|                          |   |                            |          |
|--------------------------|---|----------------------------|----------|
| * Bone                   | Metaphysis                                | Atrophy                    | Moderate |
| * Bone Marrow            |   | Atrophy                    | Mild     |
| * Clitoral Gland         |   | Atrophy                    | Minimal  |
| * Kidney                 | Bilateral                                 | Mineralization             | Minimal  |
| * Liver                  |   | Hepatodiaphragmatic Nodule |          |
|                          | Bile Duct                                 | Hyperplasia                | Mild     |
|                          | Hepatocyte                                | Hypertrophy                | Moderate |
|                          | Hepatocyte                                | Mitotic Alteration         | Mild     |
|                          | Hepatocyte                                | Necrosis                   | Minimal  |
|                          |   | Pigmentation               | Mild     |
|                          | [ Hepatodiaphragmatic Nodule TGLS = 3-8 ] |                            |          |
| * Lymph Node, Mandibular |   | Hemorrhage                 | Minimal  |
| * Ovary                  | Interstit Cell                            | Cytoplasmic Alteration     | Mild     |
| * Spleen                 | Red Pulp                                  | Atrophy                    | Minimal  |
|                          |   | Pigmentation               | Minimal  |
| * Uterus                 |   | Atrophy                    | Mild     |
|                          | [ Atrophy TGLS = 2-9 ]                    |                            |          |

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 03554-11

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 1,1,2,2-Tetrachloroethane

**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 00:53:40

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

**Lab:** MBA

---

**ANIMAL ID:** 135

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-135

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 136

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: MB193G-136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone Marrow            |
| * Brain                    | * Esophagus               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Pituitary Gland         | * Salivary Glands           | * Skin                   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

|  |                |                            |          |
|--|----------------|----------------------------|----------|
| * Bone   | Metaphysis     | Atrophy                    | Mild     |
| * Clitoral Gland   |                | Atrophy                    | Minimal  |
| * Kidney   | Bilateral      | Mineralization             | Minimal  |
| * Liver  |                | Hepatodiaphragmatic Nodule |          |
|  | Bile Duct      | Hyperplasia                | Mild     |
|  | Hepatocyte     | Hypertrophy                | Moderate |
|  | Hepatocyte     | Mitotic Alteration         | Mild     |
|  | Hepatocyte     | Necrosis                   | Minimal  |
|  |                | Pigmentation               | Mild     |
| Note: TGL 3-NCL<br>[ Hepatodiaphragmatic Nodule TGLS = 4,5-8 ] |                |                            |          |
| * Ovary  | Interstit Cell | Cytoplasmic Alteration     | Mild     |
| * Spleen   | Lymph Follic   | Atrophy                    | Minimal  |
|  | Red Pulp       | Atrophy                    | Minimal  |
| * Stomach, Forestomach   |                | Edema                      | Mild     |
| * Uterus   |                | Atrophy                    | Mild     |
| [ Atrophy TGLS = 2-9 ]   |                |                            |          |

PRIMARY CAUSE OF DEATH -

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 137

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-137

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Esophagus               | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      |
| * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         | * Salivary Glands           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

**OBSERVATIONS**

|                            |                   |                        |                  |
|----------------------------|-------------------|------------------------|------------------|
| * Clitoral Gland           |                   | Atrophy                | Mild             |
|                            |                   | Inflammation           | Chronic, Minimal |
| * Kidney                   | Bilateral         | Mineralization         | Minimal          |
| Note: TGL 3-NCL            |                   |                        |                  |
| * Liver                    | Bile Duct         | Hyperplasia            | Mild             |
|                            | Hepatocyte        | Hypertrophy            | Moderate         |
|                            | Hepatocyte        | Mitotic Alteration     | Mild             |
|                            |                   | Mixed Cell Focus       |                  |
|                            | Hepatocyte        | Necrosis               | Mild             |
|                            |                   | Pigmentation           | Mild             |
| Note: TGL 4-NCL            |                   |                        |                  |
| * Ovary                    | Interstitial Cell | Cytoplasmic Alteration | Mild             |
| * Skin                     |                   |                        |                  |
| Note: TGL 1-NCL; TGL 5-NCL |                   |                        |                  |
| * Spleen                   |                   | Pigmentation           | Minimal          |
| * Uterus                   |                   | Atrophy                | Mild             |

**PRIMARY CAUSE OF DEATH** -

Animal Note: CARCASS THIN, TGL 2-NST

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 138

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-138

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Brain                    |
| * Esophagus               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

|                  |                |                        |                |
|------------------|----------------|------------------------|----------------|
| * Bone           | Metaphysis     | Atrophy                | Moderate       |
| * Bone Marrow    |                | Atrophy                | Mild           |
| * Clitoral Gland |                | Atrophy                | Mild           |
| * Kidney         | Bilateral      | Mineralization         | Minimal        |
| * Liver          | Bile Duct      | Hyperplasia            | Mild           |
|                  | Hepatocyte     | Hypertrophy            | Mild           |
|                  | Hepatocyte     | Mitotic Alteration     | Mild           |
|                  | Hepatocyte     | Necrosis               | Minimal        |
|                  |                | Pigmentation           | Mild           |
| * Lung           | Interstitium   | Inflammation           | Acute, Minimal |
| * Ovary          | Interstit Cell | Cytoplasmic Alteration | Minimal        |
| * Skin           |                |                        |                |
| Note: TGL 1-NCL  |                |                        |                |
| * Spleen         | Red Pulp       | Atrophy                | Mild           |
| * Uterus         |                | Atrophy                | Mild           |

[ Atrophy TGLS = 3-9 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: CARCASS THIN, TGL 2-NST

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 139

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: MB193G-139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Brain                    |
| * Esophagus               | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

|                                   |                   |                        |                  |
|-----------------------------------|-------------------|------------------------|------------------|
| * Bone                            | Metaphysis        | Atrophy                | Marked           |
| * Bone Marrow                     |                   | Atrophy                | Mild             |
| * Clitoral Gland                  |                   | Inflammation           | Chronic, Minimal |
| * Kidney                          | Bilateral         | Mineralization         | Mild             |
| * Liver                           | Bile Duct         | Hyperplasia            | Mild             |
|                                   | Hepatocyte        | Hypertrophy            | Moderate         |
|                                   | Hepatocyte        | Mitotic Alteration     | Mild             |
|                                   | Hepatocyte        | Mixed Cell Focus       |                  |
|                                   | Hepatocyte        | Necrosis               | Minimal          |
|                                   |                   | Pigmentation           | Mild             |
| [ Mixed Cell Focus TGLS = 3,4-8 ] |                   |                        |                  |
| * Ovary                           | Interstitial Cell | Cytoplasmic Alteration | Mild             |
| * Skin                            |                   |                        |                  |
| Note: TGL 2-NCL                   |                   |                        |                  |
| * Spleen                          | Lymph Follicle    | Atrophy                | Minimal          |
|                                   | Red Pulp          | Atrophy                | Mild             |
|                                   |                   | Pigmentation           | Minimal          |
| * Uterus                          |                   | Atrophy                | Mild             |
| [ Atrophy TGLS = 5-9 ]            |                   |                        |                  |

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 03554-11  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,1,2,2-Tetrachloroethane  
**CAS Number:** 79-34-5

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 00:53:40  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 139

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 300 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB193G-139

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 03554-11

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 10/21/2014

Time Report Requested: 00:53:40

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 140

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 300 MG/KG

DISP: Terminal Sacrifice

HISTO: MB193G-140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Brain                  |
| * Clitoral Gland           | * Esophagus               | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Pituitary Gland         | * Salivary Glands           | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          | * Uterus                  |                             |                          |

OBSERVATIONS

|                            |                |                        |          |
|----------------------------|----------------|------------------------|----------|
| * Bone                     | Metaphysis     | Atrophy                | Marked   |
| * Bone Marrow              |                | Atrophy                | Mild     |
| * Kidney                   | Bilateral      | Mineralization         | Minimal  |
| Note: TGL 3-NCL            |                |                        |          |
| * Liver                    | Bile Duct      | Hyperplasia            | Mild     |
|                            | Hepatocyte     | Hypertrophy            | Moderate |
|                            | Hepatocyte     | Mitotic Alteration     | Mild     |
|                            | Hepatocyte     | Necrosis               | Minimal  |
|                            |                | Pigmentation           | Mild     |
| Note: TGL 4-NCL; TGL 5-NCL |                |                        |          |
| * Ovary                    | Interstit Cell | Cytoplasmic Alteration | Mild     |
| * Skin                     | Hair Follicle  | Atrophy                | Mild     |
| [ Atrophy TGLS = 2-12 ]    |                |                        |          |
| * Spleen                   | Lymph Follic   | Atrophy                | Minimal  |
|                            | Red Pulp       | Atrophy                | Mild     |
|                            |                | Pigmentation           | Mild     |

PRIMARY CAUSE OF DEATH

-

Animal Note: CARCASS THIN, TGL 1-NST

\*\* END OF REPORT \*\*

\* PROTOCOL REQUIRED TISSUE