

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

| | |
|-----------------------------|--------------|
| C Number: | C60026 |
| Lock Date: | Not Entered. |
| Cage Range: | All |
| Date Range: | All |
| Reasons For Removal: | All |
| Removal Date Range: | All |
| Treatment Groups: | All |
| Study Gender: | Both |
| PWG Approval Date | 02/02/1990 |

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:20

First Dose M/F: NA / NA

Lab: TSI MASON

| | | | |
|---------------------|----------------------------|-----------------------|-------------------------|
| ANIMAL ID: 1 | TRT#: 1 | SEX: Male | DAY ON TEST: 720 |
| | DOSE: VEHICLE 72 VM | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|----------------------------|---------------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Lung | Salivary Glands |
| Seminal Vesicle | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|--------------------------------|---------------------------|----------------|-----------------------|
| Heart | | Cardiomyopathy | Minimal |
| Islets, Pancreatic | | Adenoma | |
| Kidney | | Nephropathy | Moderate |
| Liver | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mediastinal | Congestion | Marked |
| | Mandibular | Hyperplasia | Plasma Cell, Marked |
| | Mesenteric | Pigmentation | Minimal |
| Note: HYPERPLASIA TGLs = 2-8 | | | |
| Note: CONGESTION TGLs = 4-2 | | | |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 1-10 | | | |
| Pancreas | Acinus | Atrophy | Mild |
| | Acinus | Hyperplasia | Focal, Moderate |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 9-7 | | | |
| Prostate | | Inflammation | Suppurative, Moderate |
| Spleen | Endothelium | Hyperplasia | Marked |
| Note: HYPERPLASIA TGLs = 7-3 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| | Seminif Tub | Degeneration | Marked |
| Note: ADENOMA TGLs = 6-6 | | | |
| Note: DEGEN TGLs = 5-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:20

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 720

DOSE: VEHICLE 72 VM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:20

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 380

DOSE: VEHICLE 72 VM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|------------------|-----------|-------------------|-------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Liver | | Fatty Change | Moderate |
| | Bile Duct | Hyperplasia | Mild |
| Lung | | Congestion | Moderate |
| | | Inflammation | Chronic, Mild |
| Note: CONGESTION | TGLs = 1 | | |
| Preputial Gland | | Inflammation | Chronic, Moderate |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|---------------------|--|---|--|
| ANIMAL ID: 5 | TRT#: 1 DOSE: VEHICLE 72 VM | SEX: Male DISP: Moribund | DAY ON TEST: 647 HISTO: |
|---------------------|--|---|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|--------------------|-----------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Islets, Pancreatic | Lung |
| Lymph Node - Mesenteric | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Seminal Vesicle | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|----------------|---------------------|
| Heart | | Cardiomyopathy | Mild |
| Kidney | | Nephropathy | Mild |
| Liver | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mandibular | Hyperplasia | Plasma Cell, Marked |
| Note: HYPERPLASIA TGLs = 2-8 | | | |
| Pituitary Gland | Pars Distalis | Cyst | |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 4-6 | | | |
| Thyroid Gland | C Cell | Adenoma | |
| Zymbal's Gland | | Carcinoma | |
| Note: [CARCINOMA] TGLs = 1-10 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:20

First Dose M/F: NA / NA

Lab: TSI MASON

| | | | |
|---------------------|--|---|--|
| ANIMAL ID: 6 | TRT#: 1 DOSE: VEHICLE 72 VM | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: |
|---------------------|--|---|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|----------------------------|---------------------|-------------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Heart | Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Seminal Vesicle | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|---------------------------|-------------------------|---------------------|
| Adrenal Gland Note: [PHEOCHROM BGN] TGLs = 3-7 | Medulla | Pheochromocytoma Benign | |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 1-3,2-3.1 | | | |
| Lung | | Inflammation | Granulomatous, Mild |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Mesentery | | Mesothelioma Malignant | |
| Pancreas | Acinus | Hyperplasia | Moderate |
| Spleen | | Leukemia Mononuclear | |
| Testes | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|---------------------|--|---------------------------------------|--|
| ANIMAL ID: 7 | TRT#: 1 DOSE: VEHICLE 72 VM | SEX: Male DISP: Dead | DAY ON TEST: 569 HISTO: |
|---------------------|--|---------------------------------------|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|--|---------------|-------------------|-------------------|
| Eye Note: CATARACT TGLs = 2-10 | | Cataract | Marked |
| Heart | | Cardiomyopathy | Minimal |
| Intestine Large | Cecum | Parasite Metazoan | |
| Islets, Pancreatic | | Hyperplasia | Moderate |
| Kidney | | Nephropathy | Minimal |
| Liver | | Fatty Change | Moderate |
| Lung | | Congestion | Moderate |
| Pituitary Gland Note: [ADENOMA] TGLs = 4-8 | Pars Distalis | Adenoma | |
| Prostate | | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:20

First Dose M/F: NA / NA

Lab: TSI MASON

| | | | |
|---------------------|--|---------------------------------------|--|
| ANIMAL ID: 8 | TRT#: 1 DOSE: VEHICLE 72 VM | SEX: Male DISP: Dead | DAY ON TEST: 587 HISTO: |
|---------------------|--|---------------------------------------|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Eye |
| 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 | Pancreas | Parathyroid Gland | Preputial Gland |
| Prostate | Salivary Glands | Seminal Vesicle | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|-------------------------------|----------------|----------------|---------------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Minimal |
| Liver | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 2-1,2-2] | | | |
| Nose | Nasolacrim Dct | Inflammation | Chronic, Mild |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:20

First Dose M/F: NA / NA

Lab: TSI MASON

| | | | |
|---------------------|--|---|--|
| ANIMAL ID: 9 | TRT#: 1 DOSE: VEHICLE 72 VM | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: |
|---------------------|--|---|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-----------------------|---------------------|-------------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Parathyroid Gland | Prostate | Salivary Glands |
| Seminal Vesicle | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|---------------------------|----------------------------|---------------|
| Adrenal Gland Note: PHEOCHROM MAL TGLs = 5-7 | Medulla | Pheochromocytoma Malignant | |
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Moderate |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| Mesentery Note: NECROSIS TGLs = 4-10 | Fat | Necrosis | Focal, Marked |
| Pancreas | Acinus | Atrophy | Mild |
| Pituitary Gland Note: ADENOMA TGLs = 7-7 | Pars Distalis | Adenoma | |
| Preputial Gland Note: CYST TGLs = 1-11 Note: INFLAMMATION TGLs = 1-11 | Duct | Cyst Inflammation | Chronic, Mild |
| Spleen | | Leukemia Mononuclear | |
| Testes Note: ADENOMA TGLs = 2-6,3-6 | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------|------------|-------------------------|
| Adrenal Gland - Medulla | Brain | Epididymis | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Parathyroid Gland | Seminal Vesicle | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|-------------------|---------------------------|---------------------------|---------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Minimal |
| Heart | | Cardiomyopathy | Moderate |
| Kidney | | Nephropathy | Marked |
| Note: NEPHROPATHY | TGLs = 4-4 | | |
| Liver | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Mesentery | Fat | Necrosis | Focal, Marked |
| Note: NECROSIS | TGLs = 2-10 | | |
| Pancreas | Acinus | Hyperplasia | Focal, Moderate |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] | TGLs = 5-7 | | |
| Prostate | | Inflammation | Suppurative, Marked |
| Skin | Subcut Tiss | Fibrosarcoma | |
| Note: FIBROSARC | TGLs = 1-11 | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 3-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 13 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 672
DOSE: VEHICLE 72 VM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|-------------------|-----------------|
| Adrenal Gland - Medulla | Brain | Epididymis | Esophagus |
| Islets, Pancreatic | Lymph Node - Mandibular | Parathyroid Gland | Salivary Glands |
| Trachea | | | |

OBSERVATIONS

| | | | |
|--|---------------------------|---|-----------------|
| Adrenal Gland | Extra Adr Tiss Cortex | Leukemia Mononuclear Vacuolization Cytoplasmic | Diffuse, Marked |
| Heart | | Cardiomyopathy | Moderate |
| Intestine Small Note: LEUKEMIA MONUC TGLs = 8-9 | Duodenum | Leukemia Mononuclear | |
| Kidney | | Leukemia Mononuclear Nephropathy | Mild |
| Liver | | Fatty Change | Marked |
| Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal Mesenteric | Leukemia Mononuclear Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 7-9 | | | |
| Note: LEUKEMIA MONUC TGLs = 11-10 | | | |
| Mesentery | Fat | Leukemia Mononuclear Necrosis | Focal, Moderate |
| Note: NECROSIS TGLs = 4-11,6-11 | | | |
| Note: LEUKEMIA MONUC TGLs = 4-11,6-11 | | | |
| Pancreas | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 5-8 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Preputial Gland | | Inflammation | Chronic, Mild |
| Prostate | | Leukemia Mononuclear | |
| Seminal Vesicle | | Leukemia Mononuclear | |
| Spleen | | Leukemia Mononuclear | |
| Stomach | Forestomach | Acanthosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 672

DOSE: VEHICLE 72 VM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach
Glandular

Leukemia Mononuclear
Leukemia Mononuclear

Note: ACANTHOSIS TGLs = 10-7
Note: LEUKEMIA MONUC TGLs = 10-7,12-7
Note: LEUKEMIA MONUC TGLs = 9-7,12-7

Testes

Interstit Cell
Seminif Tub

Adenoma
Degeneration

Marked

Note: DEGEN TGLs = 3-6

Thyroid Gland
Urinary Bladder

C Cell

Adenoma
Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|--|---|--|
| ANIMAL ID: 14 | TRT#: 1 DOSE: VEHICLE 72 VM | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: |
|----------------------|--|---|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-----------------------|---------------------|-------------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Parathyroid Gland | Pituitary Gland | Prostate | Seminal Vesicle |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--------------------------------|-------------------------------|---|----------|
| Adrenal Gland | Bilateral, Medulla Medulla | Pheochromocytoma Benign Pheochromocytoma Malignant | |
| Note: PHEOCHROM BGN TGLs = 2-7 | | | |
| Note: PHEOCHROM MAL TGLs = 2-7 | | | |
| Heart | | Cardiomyopathy | Moderate |
| Kidney | | Nephropathy | Moderate |
| Liver | Bile Duct | Hyperplasia | Moderate |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Pancreas | Acinus | Atrophy | Mild |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 15 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 734
DOSE: VEHICLE 72 VM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|---------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Brain | Esophagus | Intestine Small - Duodenum |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Parathyroid Gland |
| Prostate | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Tooth |
| Trachea | | | |

OBSERVATIONS

| | | | |
|--|---------------------------|----------------------------|-----------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| | Medulla | Pheochromocytoma Malignant | |
| Note: PHEOCHROM MAL TGLs = 10-7 | | | |
| Epididymis | Serosa | Mesothelioma Malignant | |
| Heart | | Cardiomyopathy | Moderate |
| Note: SCROTUM MALIGNANT MESOTHELIOMA | | | |
| Kidney | | Nephropathy | Marked |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Pancreas | Acinus | Atrophy | Moderate |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |
| Skin | | Keratoacanthoma | |
| Note: KERATOACANTHMA TGLs = 3-11 | | | |
| Note: SCROTUM MALIGNANT MESOTHELIOMA | | | |
| Note: SCROTUM MALIGNANT MESOTHELIOMA TGLs=9-10 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| | Tunic | Mesothelioma Malignant | |
| Note: ADENOMA TGLs = 7-6,8-6 | | | |
| Urinary Bladder | Serosa | Mesothelioma Malignant | |
| Note: MESOTHELIO MAL TGLs = 6-8 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:20

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Pancreas
Seminal Vesicle
Thyroid Gland

Adrenal Gland - Medulla
Intestine Small - Duodenum
Parathyroid Gland
Spleen
Trachea

Brain
Lung
Prostate
Stomach - Forestomach
Urinary Bladder

Epididymis
Lymph Node - Mandibular
Salivary Glands
Stomach - Glandular

OBSERVATIONS

Heart
Islets, Pancreatic
Kidney
Liver

Bile Duct
Mesenteric
Pars Distalis

Cardiomyopathy
Adenoma
Nephropathy
Basophilic Focus
Hyperplasia
Pigmentation
Adenoma

Moderate
Marked
Mild
Mild

Lymph Node
Pituitary Gland
 Note: ADENOMA TGLs = 4-7
Skin
 Note: FIBROMA TGLs = 1-10
Testes
 Note: ADENOMA TGLs = 3-6

Subcut Tiss
Interstit Cell

Fibroma
Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|--|---|--|
| ANIMAL ID: 17 | TRT#: 1 DOSE: VEHICLE 72 VM | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 736 HISTO: |
|----------------------|--|---|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular | Lymph Node - Mesenteric |
| Pancreas | Parathyroid Gland | Prostate | Salivary Glands |
| Seminal Vesicle | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|-------------------------------|---------------------------|----------------|---------------------|
| Adrenal Gland | Medulla | Hyperplasia | Focal, Mild |
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Marked |
| Liver | Bile Duct | Hyperplasia | Mild |
| Lung | | Inflammation | Granulomatous, Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 1-6 | | | |
| Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 426

DOSE: VEHICLE 72 VM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | |
|-------------|-------------------------|
| Bone Marrow | Intestine Large - Colon |
|-------------|-------------------------|

OBSERVATIONS

| | | | |
|-----------------------------|----------------|----------------|-----------------------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Minimal |
| Liver | | Fatty Change | Marked |
| | Bile Duct | Hyperplasia | Mild |
| Note: FATTY CHANGE TGLs = 6 | | | |
| Lung | | Congestion | Mild |
| [Congestion TGLS = 2] | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Moderate |
| Note: HYPERPLASIA TGLs = 4 | | | |
| Mammary Gland | | Hyperplasia | Cystic, Moderate |
| Nose | Nasolacrim Dct | Inflammation | Chronic, Mild |
| Pancreas | Acinus | Atrophy | Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 7 | | | |
| Preputial Gland | | Inflammation | Chronic, Mild |
| Prostate | | Inflammation | Suppurative, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|--|---|--|
| ANIMAL ID: 19 | TRT#: 1 DOSE: VEHICLE 72 VM | SEX: Male DISP: Moribund | DAY ON TEST: 653 HISTO: |
|----------------------|--|---|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------|-------------------|-------------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|---------------------------|----------------------------|-----------------|
| Adrenal Gland Note: PHEOCHROM MAL TGLs = 4-7 | Medulla | Pheochromocytoma Malignant | |
| Heart | | Cardiomyopathy | Mild |
| Kidney | | Nephropathy | Moderate |
| Liver | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| Mammary Gland Note: FIBROADENOMA TGLs = 1-10,1-10.1 | | Fibroadenoma | |
| Mesentery Note: NECROSIS TGLs = 3-9 | Fat | Necrosis | Focal, Moderate |
| Testes Note: ADENOMA TGLs = 2-6 | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:20

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Brain

Epididymis

Esophagus

Intestine Small - Duodenum

Islets, Pancreatic

Lung

Lymph Node - Mandibular

Parathyroid Gland

Pituitary Gland

Prostate

Seminal Vesicle

Stomach - Forestomach

Stomach - Glandular

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Vacuolization Cytoplasmic

Minimal

Heart

Cardiomyopathy

Minimal

Kidney

Nephropathy

Moderate

Liver

Bile Duct

Hyperplasia

Moderate

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-3

Lymph Node

Mesenteric

Pigmentation

Mild

Pancreas

Acinus

Vacuolization Cytoplasmic

Moderate

Spleen

Fibrosis

Marked

Note: FIBROSIS TGLs = 3-3

Testes

Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|----------------------------|-------------------|-------------------------|
| ANIMAL ID: 21 | TRT#: 1 | SEX: Male | DAY ON TEST: 524 |
| | DOSE: VEHICLE 72 VM | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--|---------------|-------------------|-----------------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Large | Colon | Parasite Metazoan | Moderate |
| Kidney | | Nephropathy | Minimal |
| Liver | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| Note: HYPERPLASIA TGLs = 6 [Hyperplasia TGLS = 6] | | | |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 2] | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 7 | | | |
| Prostate | | Inflammation | Suppurative, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 440

DOSE: VEHICLE 72 VM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Brain | Epididymis |
| Esophagus | Eye | Harderian Gland | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Seminal Vesicle |
| Skin | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | | |
|-------------|---------------|--------|
| Bone Marrow | Mammary Gland | Thymus |
|-------------|---------------|--------|

OBSERVATIONS

| | | | |
|---|---------------------------|---------------------------|------------------------------|
| Adrenal Gland Note: VACUOLIZ CYTO TGLs = 7 | Cortex | Vacuolization Cytoplasmic | Marked |
| Heart | | Cardiomyopathy | Mild |
| Kidney | | Nephropathy | Mild |
| Liver | | Fatty Change | Moderate |
| Lymph Node Note: HYPERPLASIA TGLs = 6 Note: CONGESTION TGLs = 2 | Mediastinal Mesenteric | Congestion Hyperplasia | Marked Lymphoid, Moderate |
| Nose | Nasolacrim Dct | Inflammation | Chronic, Moderate |
| Pancreas | Serosa | Inflammation | Chronic, Moderate |
| Preputial Gland | | Inflammation | Chronic, Mild |
| Prostate | | Inflammation | Suppurative, Marked |
| Spleen Note: SARCOMA TGLs = 5 | | Sarcoma | Poorly Diffr |
| Testes | Interstit Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:20

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 481

DOSE: VEHICLE 72 VM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|---------------------|--------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Epididymis | Esophagus | Eye | Islets, Pancreatic |
| Kidney | Lymph Node - Mandibular | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Seminal Vesicle | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------------------|----------------------------|-------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---|----------------|-------------------|-----------------------|
| Brain Note: HEMORRHAGE TGLs = 8 | Latl Ventrcl | Hemorrhage | Moderate |
| Heart | | Cardiomyopathy | Mild |
| Intestine Large | Colon | Parasite Metazoan | Mild |
| | Rectum | Parasite Metazoan | Mild |
| Liver Note: FATTY CHANGE TGLs = 5 | | Basophilic Focus | |
| | | Fatty Change | Marked |
| Lung [Congestion TGLS = 2] | | Congestion | Marked |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Pituitary Gland Note: ADENOMA TGLs = 6 | Pars Distalis | Adenoma | |
| Preputial Gland | | Inflammation | Chronic, Mild |
| Prostate | | Inflammation | Suppurative, Moderate |
| Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:20

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Pancreas
Salivary Glands
Stomach - Glandular

Adrenal Gland - Medulla
Intestine Small - Duodenum
Parathyroid Gland
Seminal Vesicle
Thyroid Gland

Brain
Islets, Pancreatic
Pituitary Gland
Spleen
Trachea

Epididymis
Lymph Node - Mandibular
Prostate
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver

Lung
Lymph Node
Mammary Gland
 Note: FIBROADENOMA TGLs = 1-9
Mesentery
 Note: NECROSIS TGLs = 4-10
Testes
 Note: ADENOMA TGLs = 2-6,3-6

Bile Duct

Mesenteric

Fat

Bilateral, Interstit Cell

Cardiomyopathy
Nephropathy
Clear Cell Focus
Hyperplasia
Inflammation
Pigmentation
Fibroadenoma

Necrosis

Adenoma

Moderate
Moderate

Mild
Granulomatous, Mild
Hemosiderin, Mild

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:20

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 735

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|----------------------------|-------------------------|-------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Lymph Node - Mandibular | Parathyroid Gland |
| Prostate | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|------------------------------|---------------------------|------------------|---------------------|
| Heart | | Cardiomyopathy | Mild |
| Islets, Pancreatic | | Carcinoma | |
| Kidney | | Nephropathy | Marked |
| Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Moderate |
| Lung | | Inflammation | Granulomatous, Mild |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Pancreas | Acinus | Adenoma | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 4-7 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| | Seminif Tub | Degeneration | Moderate |
| Note: DEGEN TGLs = 2-6 | | | |
| Note: ADENOMA TGLs = 1-6,2-6 | | | |
| Thyroid Gland | C Cell | Carcinoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|----------------------------|-----------------------|-------------------------|
| ANIMAL ID: 26 | TRT#: 1 | SEX: Male | DAY ON TEST: 681 |
| | DOSE: VEHICLE 72 VM | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-------------------------|---------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Pancreas | Parathyroid Gland |
| Salivary Glands | Seminal Vesicle | Spleen | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--------------------------------|---------------------------|-------------------------|-------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Marked |
| Liver | | Fatty Change | Marked |
| Note: FATTY CHANGE TGLs = 12-3 | | | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Pituitary Gland | Pars Distalis | Carcinoma | |
| Note: CARCINOMA TGLs = 13-7 | | | |
| Prostate | | Inflammation | Suppurative, Mild |
| Stomach | Forestomach | Ulcer | Marked |
| Note: ULCER TGLs = 15-7.1 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 5-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|--------------------|-----------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Islets, Pancreatic | Lung |
| Lymph Node - Mandibular | Lymph Node - Mesenteric | Pancreas | Parathyroid Gland |
| Salivary Glands | Seminal Vesicle | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|----------------------------|-----------------------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Marked |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Moderate |
| Note: ANOM HEPAT LOB TGLs = 4-3 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 5-7 | | | |
| Preputial Gland | | Adenoma | |
| | | Inflammation | Chronic, Moderate |
| Note: ADENOMA TGLs = 1-9 | | | |
| Prostate | | Inflammation | Suppurative, Moderate |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|----------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 28 | TRT#: 1 | SEX: Male | DAY ON TEST: 737 |
| | DOSE: VEHICLE 72 VM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|----------------------------|---------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular |
| Parathyroid Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--------------------|---------------------------|------------------|------------------------|
| Heart | | Cardiomyopathy | Mild |
| Kidney | | Nephropathy | Moderate |
| Liver | | Clear Cell Focus | |
| | | Fatty Change | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| Note: FATTY CHANGE | TGLs = 2-3 | | |
| Lung | | Inflammation | Granulomatous, Minimal |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Pancreas | Acinus | Atrophy | Mild |
| Pituitary Gland | Pars Distalis | Cyst | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 1-6 | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|----------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 29 | TRT#: 1 | SEX: Male | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72 VM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|--------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Parathyroid Gland | Pituitary Gland | Prostate |
| Salivary Glands | Seminal Vesicle | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|------------------------------------|---------------------------|------------------------------|---------------------|
| Heart | | Cardiomyopathy | Mild |
| Kidney | | Nephropathy | Marked |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| Lung | Bile Duct | Hyperplasia | Moderate |
| | | Alveolar/Bronchiolar Adenoma | |
| | | Inflammation | Granulomatous, Mild |
| Note: [ALV BRON ADEN] TGLs = 2-9 | | | |
| Pancreas | Artery | Hypertrophy | Marked |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 3-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:20
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 721

DOSE: VEHICLE 72 VM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------|-----------------|-------------------------|
| Adrenal Gland - Medulla | Brain | Epididymis | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Parathyroid Gland | Salivary Glands | Seminal Vesicle |
| Spleen | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|---------------------------|-----------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Diffuse, Moderate |
| Heart | | Cardiomyopathy | Moderate |
| Kidney | | Nephropathy | Marked |
| Liver | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Minimal |
| Pancreas | Acinus | Hyperplasia | Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 4-7 | | | |
| Prostate | | Inflammation | Suppurative, Moderate |
| Skin | | Hyperkeratosis | Marked |
| Note: HYPERKERATOSIS TGLs = 2 | | | |
| Stomach | Forestomach | Acanthosis | Marked |
| | Serosa | Inflammation | Acute, Marked |
| Note: INFLAMMATION TGLs = 5-7.1,6-7.1 | | | |
| Note: [ACANTHOSIS] TGLs = 3-7.1 | | | |
| Testes | Seminif Tub | Degeneration | Mild |
| | Interstit Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|----------------------------|-------------------|-------------------------|
| ANIMAL ID: 31 | TRT#: 1 | SEX: Male | DAY ON TEST: 731 |
| | DOSE: VEHICLE 72 VM | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|--------------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Islets, Pancreatic | Lung |
| Lymph Node - Mandibular | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Stomach - Forestomach | Thyroid Gland | Trachea |

MISSING

Lymph Node - Mesenteric

AUTO PRECLUDES DIAG.

Preputial Gland

OBSERVATIONS

| | | | |
|--------------------|--------------------------|----------------|---------------------|
| Heart | | Cardiomyopathy | Marked |
| Kidney | | Nephropathy | Marked |
| Note: NEPHROPATHY | TGLs = 5-4 | | |
| Liver | Bile Duct | Hyperplasia | Minimal |
| Prostate | | Inflammation | Suppurative, Marked |
| Note: INFLAMMATION | TGLs = 3-6.1,3-6.2,8-6.1 | | |
| Seminal Vesicle | | Dilatation | Marked |
| Note: DILATATION | TGLs = 2-6,2-6.1 | | |
| Spleen | | Pigmentation | Hemosiderin, Marked |
| Stomach | Glandular | Mineralization | Moderate |
| Testes | Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 1-6 | | |
| Urinary Bladder | Wall | Inflammation | Suppurative, Marked |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|----------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 32 | TRT#: 1 | SEX: Male | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72 VM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-----------------------|---------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Liver | Lung |
| Lymph Node - Mandibular | Lymph Node - Mesenteric | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Seminal Vesicle | Stomach - Forestomach | Stomach - Glandular |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|-----------------|---------------------------|-------------------------|----------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Heart | | Cardiomyopathy | Mild |
| Kidney | Renal Tubule | Carcinoma | |
| | | Nephropathy | Marked |
| Note: CARCINOMA | TGLs = 4-4,4-4.1,5-4,6-4 | | |
| Pancreas | Acinus | Hyperplasia | Moderate |
| Prostate | | Adenoma | |
| Spleen | Red Pulp | Atrophy | Moderate |
| Note: ATROPHY | TGLs = 1-3 | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Thyroid Gland | Bilateral, C Cell | Carcinoma | |
| Note: CARCINOMA | TGLs = 3-7 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: VEHICLE 72 VM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|---------------------|-------------------------|
| Adrenal Gland - Medulla | Brain | Epididymis | Esophagus |
| Heart | Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Pancreas | Parathyroid Gland | Salivary Glands |
| Seminal Vesicle | Spleen | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--------------------|-----------------|---------------------------|-----------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Moderate |
| Eye | | Cataract | Marked |
| Note: CATARACT | TGLs = 3-9 | | |
| Kidney | | Nephropathy | Marked |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| Lung | Interstitialium | Inflammation | Chronic, Moderate |
| Note: INFLAMMATION | TGLs = 7-2 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 6-7 | | |
| Preputial Gland | | Inflammation | Chronic, Moderate |
| Note: INFLAMMATION | TGLs = 9-9 | | |
| Prostate | | Inflammation | Suppurative, Moderate |
| Stomach | Forestomach | Acanthosis | Minimal |
| Testes | Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 4-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|----------------------------|-------------------|-------------------------|
| ANIMAL ID: 36 | TRT#: 1 | SEX: Male | DAY ON TEST: 671 |
| | DOSE: VEHICLE 72 VM | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|----------------------------|-----------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Seminal Vesicle | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|-------------------------------|---------------------------|----------------------------|-----------------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Congestion | Moderate |
| | | Nephropathy | Mild |
| Note: CONGESTION | TGLs = 7-4 | | |
| Liver | | Congestion | Moderate |
| | | Fatty Change | Mild |
| | | Fibrosis | Focal, Moderate |
| | | Hepatodiaphragmatic Nodule | |
| Note: ANOM HEPAT LOB | TGLs = 8-9 | | |
| Lung | | Congestion | Marked |
| [Congestion TGLS = 1-1,1-2] | | | |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Pancreas | Acinus | Hyperplasia | Focal, Moderate |
| | Artery | Hypertrophy | Marked |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 5-6 | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|---------------------|-----------------|----------------------------|
| Brain | Epididymis | Esophagus | Intestine Small - Duodenum |
| Islets, Pancreatic | Parathyroid Gland | Pituitary Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|----------------------|-------------------------------------|----------------------|----------|
| Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 10-7 | | |
| Note: LEUKEMIA MONUC | TGLs = 10-7 | | |
| Heart | | Cardiomyopathy | Minimal |
| | | Leukemia Mononuclear | |
| Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 11-3 | | |
| Lung | | Leukemia Mononuclear | |
| Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 4-3 | | |
| Note: LEUKEMIA MONUC | TGLs = 2-8 | | |
| Note: LEUKEMIA MONUC | TGLs = 8-8.1 | | |
| | [Leukemia Mononuclear TGLs = 9-9] | | |
| Pancreas | | Leukemia Mononuclear | |
| Prostate | | Leukemia Mononuclear | |
| Seminal Vesicle | | Leukemia Mononuclear | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 5-3.1,6-3.1 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|-------------------------------|---------------------------|----------------------|
| Testes | Bilateral, Interstit Cell | Adenoma |
| Note: ADENOMA TGLs = 3-6 | | |
| Thymus | | Leukemia Mononuclear |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 549

DOSE: VEHICLE 72 VM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Trachea

Adrenal Gland - Medulla
Epididymis
Lymph Node - Mesenteric
Pituitary Gland
Spleen
Urinary Bladder

Bone
Esophagus
Mammary Gland
Preputial Gland
Thymus

Bone Marrow
Islets, Pancreatic
Pancreas
Salivary Glands
Thyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Intestine Small - Ileum
Stomach - Glandular

Intestine Large - Colon
Intestine Small - Jejunum

Intestine Large - Rectum
Nose

Intestine Small - Duodenum
Stomach - Forestomach

OBSERVATIONS

Heart
Kidney

Cardiomyopathy
Congestion
Nephropathy

Mild
Mild
Minimal

Note: CONGESTION TGLs = 5,6

Liver
Lung

Fatty Change
Congestion

Moderate
Moderate

[Congestion TGLS = 2]

Prostate
Skin
Testes

Subcut Tiss
Interstit Cell

Inflammation
Sarcoma
Adenoma

Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------|-----------------------|-------------------------|----------------------------|
| Brain | Epididymis | Esophagus | Intestine Small - Duodenum |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Lymph Node - Mesenteric |
| Pancreas | Parathyroid Gland | Prostate | Seminal Vesicle |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--------------------------------|---------------------------|----------------------------|-----------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Malignant | |
| | Cortex | Vacuolization Cytoplasmic | Minimal |
| Note: PHEOCHROM MAL TGLs = 2-7 | | | |
| Heart | | Cardiomyopathy | Mild |
| | | Fibrosis | Moderate |
| [Fibrosis TGLS = 5-2] | | | |
| Kidney | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 4-7 | | | |
| Skin | Subcut Tiss | Hemorrhage | Marked |
| Note: HEMORRHAGE TGLs = 6-7 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 1-6 | | | |
| Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------|-------------------------|-------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular | Parathyroid Gland |
| Prostate | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|------------------------------|---------------------------|-------------------------|---------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Heart | | Cardiomyopathy | Moderate |
| Kidney | | Nephropathy | Moderate |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| Lung | | Inflammation | Granulomatous, Mild |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Pancreas | Acinus | Hyperplasia | Moderate |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 2-7 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 1-7 | | | |
| Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 658

DOSE: VEHICLE 72 VM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|--------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Seminal Vesicle | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|-------------------------------|---------------------------|---------------------------|----------------------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Congestion | Moderate |
| | | Nephropathy | Mild |
| Note: CONGESTION | TGLs = 6-4 | | |
| Liver | | Clear Cell Focus | |
| | | Fatty Change | Moderate |
| | | Hyperplasia | Mild |
| Note: FATTY CHANGE | TGLs = 7-3 | | |
| Lung | | Congestion | Moderate |
| | | | |
| [Congestion TGLS = 4-1,4-2] | | | |
| Prostate | | Inflammation | Suppurative, Minimal |
| Skin | | Cyst Epithelial Inclusion | |
| Note: CYST EPITH INC | TGLs = 8-9 | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 3-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-----------------------|-------------------------|-----------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular | Pancreas |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Seminal Vesicle |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|-------------------------------|---|----------------|
| Adrenal Gland Note: PHEOCHROM BGN TGLs = 6-7 | Bilateral, Medulla | Pheochromocytoma Benign | |
| Heart | | Cardiomyopathy | Moderate |
| Kidney | | Nephropathy | Marked |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| Lung [Alveolar/Bronchiolar Adenoma TGLS = 8-2] | Alveolar Epith | Alveolar/Bronchiolar Adenoma Hyperplasia | Focal, Mild |
| Lymph Node | Mediastinal Mesenteric | Congestion Pigmentation | Marked Mild |
| Note: CONGESTION TGLs = 1 | | | |
| Prostate | | Adenoma | |
| Testes | Interstit Cell Seminif Tub | Adenoma Degeneration | Marked |
| Note: ADENOMA TGLs = 3-6,2-6 Note: DEGEN TGLs = 2-6 | | | |
| Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|----------------------------|-----------------------|-------------------------|
| ANIMAL ID: 43 | TRT#: 1 | SEX: Male | DAY ON TEST: 642 |
| | DOSE: VEHICLE 72 VM | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|----------------------------|--------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Heart | Intestine Small - Duodenum | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Lymph Node - Mesenteric | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|------------------------------|---------------------------|----------------------------|----------|
| Kidney | | Nephropathy | Moderate |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Mild |
| | | Hepatodiaphragmatic Nodule | |
| | | Hyperplasia | Mild |
| [Hyperplasia TGLS = 5-3] | Bile Duct | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 4-7 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 576

DOSE: VEHICLE 72 VM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | 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 | Lymph Node - Mandibular | Lymph Node - Mesenteric |
| Pancreas | Parathyroid Gland | Salivary Glands | Seminal Vesicle |
| Skin | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | | |
|-------------------------|---------------|----------|
| Adrenal Gland - Medulla | Mammary Gland | Prostate |
|-------------------------|---------------|----------|

OBSERVATIONS

| | | | |
|----------------------|----------------|----------------------|---------------|
| Kidney | | Nephropathy | Minimal |
| Liver | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 10-3 | | |
| Lung | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 3-1,3-2 | | |
| Lymph Node | Mediastinal | Pigmentation | Moderate |
| Nose | Nasolacrim Dct | Inflammation | Chronic, Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 11-8 | | |
| Preputial Gland | | Inflammation | Chronic, Mild |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 8-3 | | |
| Testes | Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 6-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|--|---|--|
| ANIMAL ID: 45 | TRT#: 1 DOSE: VEHICLE 72 VM | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 737 HISTO: |
|----------------------|--|---|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|-----------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Pancreas | Parathyroid Gland | Pituitary Gland |
| Prostate | Seminal Vesicle | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------------|---------------------------|------------------|---------------------|
| Heart | | Cardiomyopathy | Marked |
| Kidney | | Nephropathy | Marked |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| Note: [CLEAR CL FOCUS] TGLs = 4-3.1 | | | |
| Lung | | Inflammation | Granulomatous, Mild |
| Spleen | | Sarcoma | |
| Note: [SARCOMA] TGLs = 2-3 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------|-----------------------|-------------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Parathyroid Gland | Pituitary Gland | Prostate |
| Seminal Vesicle | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|--|----------------------------|-------------------|
| Adrenal Gland Note: PHEOCHROM MAL TGLs = 8-7 | Medulla | Pheochromocytoma Malignant | |
| Heart | | Cardiomyopathy | Marked |
| Kidney Note: NEPHROPATHY TGLs = 10-4 | | Nephropathy | Marked |
| Liver | | Basophilic Focus | |
| Pancreas | Bile Duct | Hyperplasia | Mild |
| | Artery | Inflammation | Chronic, Marked |
| | | Inflammation | Chronic, Moderate |
| | Artery | Thrombosis | |
| Note: INFLAMMATION TGLs = 11-8 | | | |
| Skin Note: [BASAL CEL ADEN] TGLs = 2-10 | | Basal Cell Adenoma | |
| Testes Note: ADENOMA TGLs = 4-6,5-6 Note: DEGEN TGLs = 5-6 | Bilateral, Interstit Cell Seminif Tub | Adenoma Degeneration | Marked |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------|-------------------------|-----------------------|
| Brain | Epididymis | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular | Parathyroid Gland |
| Pituitary Gland | Prostate | Seminal Vesicle | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|----------------------------------|----------------|---------------------------|------------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| | Cortex | Vacuolization Cytoplasmic | Minimal |
| Kidney | | Nephropathy | Marked |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| Lung | | Inflammation | Granulomatous, Minimal |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Mammary Gland | | Hyperplasia | Marked |
| Note: HYPERPLASIA TGLs = 3-11 | | | |
| Pancreas | Acinus | Atrophy | Minimal |
| Skin | | Squamous Cell Carcinoma | |
| Note: SQUAM CEL CARC TGLs = 1-10 | | | |
| Spleen | Endothelium | Hyperplasia | Marked |
| | | Pigmentation | Hemosiderin, Marked |
| Note: HYPERPLASIA TGLs = 5-3 | | | |
| Testes | Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|----------------------------|-----------------------|-------------------------|
| ANIMAL ID: 50 | TRT#: 1 | SEX: Male | DAY ON TEST: 685 |
| | DOSE: VEHICLE 72 VM | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|----------------------------|--------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular |
| Pancreas | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|-----------------|---------------|----------------|------------------------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Marked |
| Liver | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| Lung | | Inflammation | Granulomatous, Minimal |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 5-7 | | |
| Prostate | | Inflammation | Suppurative, Moderate |
| Testes | Seminif Tub | Degeneration | Marked |
| Note: DEGEN | TGLs = 4-6 | | |
| Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 570

DOSE: VEHICLE 72 VM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Small - Duodenum |
| Kidney | Lymph Node - Mandibular | Lymph Node - Mesenteric | Nose |
| Pancreas | Parathyroid Gland | Pituitary Gland | Preputial Gland |
| Salivary Glands | Seminal Vesicle | Spleen | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Mammary Gland

AUTO PRECLUDES DIAG.

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Intestine Large - Cecum | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------------------|--------------------------|-------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---|---------------------------|--|---------------------|
| Adrenal Gland Note: PHEOCHROM BGN TGLs = 9-8 | Medulla | Pheochromocytoma Benign | |
| Intestine Large Islets, Pancreatic Liver | Colon | Parasite Metazoan Adenoma Basophilic Focus Fatty Change | Mild |
| | Bile Duct | Hyperplasia Congestion | Minimal Moderate |
| Lung [Congestion TGLS = 3-1,3-2] | | | |
| Prostate | | Hyperplasia | Focal, Mild |
| Skin Note: CARCINOMA TGLs = 1-13 | Sebaceous Gl | Carcinoma | |
| Stomach Note: [ACANTHOSIS] TGLs = 10-7 | Forestomach | Acanthosis | Moderate |
| Testes Note: ADENOMA TGLs = 4-6,5-6 | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 525

DOSE: VEHICLE 72 VM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | 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 | Nose | Pancreas |
| Parathyroid Gland | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Testes | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | | |
|---------------|------|--------|
| Mammary Gland | Skin | Thymus |
|---------------|------|--------|

OBSERVATIONS

| | | | |
|--|---------------|----------------------------|-----------------------|
| Adrenal Gland Note: PHEOCHROM MAL TGLs = 6 | Medulla | Pheochromocytoma Malignant | |
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| | | Inflammation | Chronic, Minimal |
| Lymph Node Note: HYPERPLASIA TGLs = 3 | Mandibular | Hyperplasia | Plasma Cell, Moderate |
| | Mesenteric | Pigmentation | Mild |
| Pituitary Gland Note: ANGIOECTASIS TGLs = 8 | Pars Distalis | Angiectasis | Focal, Moderate |
| Preputial Gland Note: CARCINOMA TGLs = 2 | | Carcinoma | |
| Prostate | | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 522

DOSE: VEHICLE 72 VM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Bone | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Mammary Gland | Nose |
| Pancreas | Parathyroid Gland | Preputial Gland | Salivary Glands |
| Seminal Vesicle | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|----------------------|---------------|---------------------------|-------------------|
| Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| | Cortex | Vacuolization Cytoplasmic | Minimal |
| Bone Marrow | | Leukemia Mononuclear | |
| Brain | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 10 | | |
| Heart | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 2 | | |
| Kidney | | Leukemia Mononuclear | |
| | | Necrosis | Focal, Marked |
| | | Nephropathy | Moderate |
| Note: NECROSIS | TGLs = 11 | | |
| Note: LEUKEMIA MONUC | TGLs = 7 | | |
| Liver | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 8,9 | | |
| Lung | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 3 | | |
| Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| Mesentery | | Leukemia Mononuclear | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Prostate | | Inflammation | Suppurative, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 522

DOSE: VEHICLE 72 VM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------|----------|----------------|----------------------|
| Skin | | | Keratoacanthoma |
| Note: KERATOACANTHMA | TGLs = 1 | | |
| Spleen | | | Leukemia Mononuclear |
| Note: LEUKEMIA MONUC | TGLs = 6 | | |
| Testes | | Interstit Cell | Adenoma |
| Note: ADENOMA | TGLs = 4 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 55 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 591
DOSE: VEHICLE 72 VM **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | |
|-------------------------|---------------|
| Lymph Node - Mandibular | Mammary Gland |
|-------------------------|---------------|

AUTO PRECLUDES DIAG.

| | |
|----------------------------|-------------------------|
| Intestine Small - Duodenum | Intestine Small - Ileum |
|----------------------------|-------------------------|

OBSERVATIONS

| | | | |
|------------------|----------------|------------------|----------------------|
| Heart | | Cardiomyopathy | Mild |
| Kidney | | Nephropathy | Minimal |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Congestion | Moderate |
| Lung | | | |
| Note: CONGESTION | TGLs = 3-1,3-2 | | |
| Lymph Node | | | |
| Note: CONGESTION | TGLs = 5-2 | Mediastinal | Congestion |
| Preputial Gland | | | |
| Note: CARCINOMA | TGLs = 1-13 | Carcinoma | |
| Prostate | | Inflammation | Chronic, Mild |
| Testes | | Inflammation | Suppurative, Minimal |
| Note: ADENOMA | TGLs = 2-6 | Interstit Cell | Adenoma |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 686

DOSE: VEHICLE 72 VM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|----------------------------|--------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Heart | Intestine Small - Duodenum | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Parathyroid Gland | Prostate |
| Seminal Vesicle | Spleen | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-----------------------------|----------------|----------------------------|----------|
| Kidney | | Nephropathy | Marked |
| Note: NEPHROPATHY | TGLs = 5-4 | | |
| Liver | | Fatty Change | Marked |
| | | Hepatodiaphragmatic Nodule | |
| | | Hyperplasia | Mild |
| [Fatty Change TGLS = 8-3] | Bile Duct | | |
| [Hyperplasia TGLS = 7-3] | | | |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Pancreas | Acinus | Hyperplasia | Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] | | | |
| TGLs = 9-7 | | | |
| Stomach | Glandular | Necrosis | Moderate |
| | Forestomach | Ulcer | Marked |
| Note: ULCER | | | |
| TGLs = 10-7 | | | |
| Testes | Interstit Cell | Adenoma | |
| Note: ADENOMA | | | |
| TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 737

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------|-------------------------|-----------------|
| Brain | Epididymis | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular | Pancreas |
| Parathyroid Gland | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|------------------------------|----------------|------------------|------------------------|
| Adrenal Gland | Cortex | Cyst | |
| | Medulla | Hyperplasia | Focal, Mild |
| Kidney | | Nephropathy | Marked |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| Lung | | Inflammation | Granulomatous, Minimal |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 3-7 | | | |
| Prostate | | Inflammation | Suppurative, Moderate |
| Testes | Interstit Cell | Adenoma | |
| Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 736

DOSE: VEHICLE 72 VM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|---------------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Intestine Small - Duodenum | Islets, Pancreatic | Lung |
| Lymph Node - Mandibular | Parathyroid Gland | Prostate | Seminal Vesicle |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--------------------|--------------------------------|------------------|----------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA | TGLs = 1-10,1-10.1,2-10,2-10.1 | | |
| Pancreas | Acinus | Atrophy | Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] | TGLs = 5-7 | | |
| Testes | Interstitial Cell | Adenoma | |
| Note: ADENOMA | TGLs = 3-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|--|---------------------------------------|--|
| ANIMAL ID: 60 | TRT#: 1 DOSE: VEHICLE 72 VM | SEX: Male DISP: Dead | DAY ON TEST: 659 HISTO: |
|----------------------|--|---------------------------------------|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular | Lymph Node - Mesenteric |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Seminal Vesicle | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|----------------|----------------------------|----------|
| Adrenal Gland Note: PHEOCHROM BGN TGLs = 6-7 | Medulla | Pheochromocytoma Benign | |
| Heart | | Cardiomyopathy | Marked |
| Kidney | | Congestion | Moderate |
| | Capsule | Developmental Malformation | |
| | | Nephropathy | Moderate |
| Note: DEVELOP MALFOR TGLs = 8-4 Note: CONGESTION TGLs = 7-4 | | | |
| Liver | | Congestion | Moderate |
| | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| Note: CONGESTION TGLs = 9-3 | | | |
| Lung [Congestion TGLs = 2-1,2-2] | | Congestion | Moderate |
| Lymph Node Note: CONGESTION TGLs = 3-2 | Mediastinal | Congestion | Moderate |
| Testes Note: ADENOMA TGLs = 4-6 | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 61

TRT#: 2

SEX: Male

DAY ON TEST: 286

DOSE: .0125 G/KG 72LM

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Kidney
Nose
Prostate
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Epididymis
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Islets, Pancreatic
Mammary Gland
Preputial Gland
Skin
Thymus

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|------------------|--------------------------|-------------------|---------------|
| Heart | | Inflammation | Chronic, Mild |
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Mild |
| Liver | | Fatty Change | Mild |
| Lung | | Congestion | Moderate |
| Note: CONGESTION | TGLs = 1-1+2 | | |
| Testes | Interstit Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 63 | TRT#: 2 | SEX: Male | DAY ON TEST: 729 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| Adrenal Gland - Medulla | Lymph Node - Mesenteric | Stomach - Glandular | Urinary Bladder |
|----------------------------------|--------------------------|----------------------------|-----------------------|
| OBSERVATIONS | | | |
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 9-3 | | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Note: NEPHROPATHY TGLs = 5-1,6-1 | | | |
| Liver | Bile Duct | Hepatodiaphragmatic Nodule | |
| | | Hyperplasia | Mild |
| Note: ANOM HEPAT LOB TGLs = 4-4 | | | |
| Lymph Node | Mediastinal | Pigmentation | Minimal |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 7-2 | | | |
| Stomach | Forestomach | Ulcer | Marked |
| Note: ULCER TGLs = 8-4 | | | |
| Testes | Interstit Cell | Adenoma | |
| | Seminif Tub | Degeneration | Marked |
| Note: ADENOMA TGLs = 2-5,3-5 | | | |
| Note: DEGEN TGLs = 2-5 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|-------------------|-------------------------|
| ANIMAL ID: 65 | TRT#: 2 | SEX: Male | DAY ON TEST: 461 |
| | DOSE: .0125 G/KG 72LM | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Lymph Node - Mesenteric |
| Mammary Gland | Nose | Pancreas | Pituitary Gland |
| Preputial Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Spleen | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | | | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|-------------------------------|--------------------------|------------------|----------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| Skin | Subcut Tiss | Hemorrhage | Marked |
| Note: HEMORRHAGE TGLs = 1 | | | |
| Stomach | Forestomach | Acanthosis | Mild |
| Note: [ACANTHOSIS] TGLs = 2 | | | |
| Testes | Interstit Cell | Adenoma | |
| Urinary Bladder | | Concretion | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 67

TRT#: 2

SEX: Male

DAY ON TEST: 147

DOSE: .0125 G/KG 72LM

DISP: Gavage Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Liver
Pancreas
Seminal Vesicle
Testes
Urinary Bladder

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Mandibular
Pituitary Gland
Skin
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Preputial Gland
Stomach - Forestomach
Thyroid Gland

Brain
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Salivary Glands
Stomach - Glandular
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Heart
Intestine Small
Kidney
Lung
 Note: HEMORRHAGE TGLs = 2
Nose
Prostate
Spleen
 Note: ECT TISSUE TGLs = 7

Cortex

Duodenum, Lamina Propria

Nasolacrim Dct

Vacuolization Cytoplasmic
Inflammation
Pigmentation
Nephropathy
Hemorrhage

Inflammation
Inflammation
Ectopic Tissue

Moderate
Chronic, Mild
Minimal
Minimal
Moderate

Chronic, Mild
Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 68

TRT#: 2

SEX: Male

DAY ON TEST: 639

DOSE: .0125 G/KG 72LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Lymph Node - Mesenteric

Seminal Vesicle

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Vacuolization Cytoplasmic

Minimal

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 7-3

Kidney

Nephropathy

Moderate

Lymph Node

Mandibular

Hyperplasia

Plasma Cell, Moderate

Note: HYPERPLASIA TGLs = 2-3

Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Mild

Spleen

Sarcoma

Note: [SARCOMA] TGLs = 6-5,6-5.1

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 4-4,5-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 69

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: .0125 G/KG 72LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Large - Colon

Lymph Node - Mesenteric

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Cortex

Vacuolization Cytoplasmic

Minimal

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 6-3

Islets, Pancreatic

Adenoma

Kidney

Nephropathy

Marked

Renal Tubule

Pigmentation

Hemosiderin, Moderate

Liver

Basophilic Focus

Bile Duct

Hepatodiaphragmatic Nodule

Hyperplasia

Moderate

Note: ANOM HEPAT LOB TGLs = 3-4

Mammary Gland

Duct

Hemorrhage

Chronic, Moderate

Note: HEMORRHAGE TGLs = 1-6

Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Mild

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 70 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 729
DOSE: .0125 G/KG 72LM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Urinary Bladder | |
|--|--------------------------|----------------------|----------------------|
| OBSERVATIONS | | | |
| Intestine Small Note: PIGMENT TGLs = 8-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | | Nephropathy | Mild |
| Liver | Bile Duct | Fatty Change | Moderate |
| | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 5-4,7-4 | | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 6-6 | | | |
| Pancreas | Duct | Ectasia | Multifocal, Moderate |
| Note: ECTASIA TGLs = 4-4 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Spleen | | Hemangiosarcoma | |
| | | Leukemia Mononuclear | |
| Note: HEMANGIOSARC TGLs = 3-5 | | | |
| Note: LEUKEMIA MONUC TGLs = 2-5 | | | |
| Testes | Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 1-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 71

TRT#: 2

SEX: Male

DAY ON TEST: 463

DOSE: .0125 G/KG 72LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Islets, Pancreatic
Parathyroid Gland
Skin
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Lung
Prostate
Stomach - Forestomach
Urinary Bladder

Bone
Heart
Intestine Small - Ileum
Nose
Salivary Glands
Stomach - Glandular

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Pancreas
Seminal Vesicle
Testes

MISSING

Mammary Gland

Thymus

OBSERVATIONS

Bone Marrow
Intestine Small
Note: PIGMENT TGLs = 3
Kidney
Liver

Duodenum, Lamina Propria

Leukemia Mononuclear
Pigmentation
Nephropathy
Fatty Change

Marked
Minimal
Marked

Lymph Node

Mandibular
Mediastinal
Mesenteric
Pancreatic

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Moderate

Note: [LEUKEMIA MONUC] TGLs = 5

Pituitary Gland
Note: ADENOMA TGLs = 10

Pars Distalis

Adenoma

Preputial Gland
Spleen

Inflammation
Leukemia Mononuclear

Chronic, Mild

Note: [LEUKEMIA MONUC] TGLs = 4

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 71

TRT#: 2

SEX: Male

DAY ON TEST: 463

DOSE: .0125 G/KG 72LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 72 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 597
DOSE: .0125 G/KG 72LM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lymph Node - Mandibular | Nose | Parathyroid Gland |
| Preputial Gland | Salivary Glands | Seminal Vesicle | Skin |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|------------------------------------|--------------------------|---------------------------|-----------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 5-7 | | | |
| Kidney | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Note: NEPHROPATHY TGLs = 8-4 | | | |
| Liver | | Fatty Change | Marked |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 4-1,4-2] | | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Pancreas | Acinus | Atrophy | Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 10-8 | | | |
| Prostate | | Inflammation | Suppurative, Marked |
| Spleen | | Pigmentation | Hemosiderin, Marked |
| Stomach | Forestomach | Ulcer | Marked |
| Note: ULCER TGLs = 11-7 | | | |
| Testes | Interstit Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 73 | TRT#: 2 | SEX: Male | DAY ON TEST: 729 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Lymph Node - Mesenteric | Urinary Bladder |
|------------------------|-------------------------|-------------------------|-----------------|

OBSERVATIONS

| | | | |
|--|---------------------------|----------------------------|------------------------------|
| Intestine Small Note: PIGMENT TGLs = 4-3 | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | Renal Tubule | Hyperplasia Nephropathy | Focal, Minimal Moderate |
| Lymph Node Note: PIGMENT TGLs = 5-3 | Pancreatic | Pigmentation | Marked |
| Mammary Gland Note: CYST TGLs = 1-5 Note: INFLAMMATION TGLs = 2-6 Note: CYST TGLs = 2-6 | Duct | Cyst Inflammation | Granulomatous, Focal, Marked |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Testes Note: ADENOMA TGLs = 3-4 | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 74

TRT#: 2

SEX: Male

DAY ON TEST: 611

DOSE: .0125 G/KG 72LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Intestine Large - Cecum | Intestine Large - Rectum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node - Mandibular |
| Nose | Pancreas | Parathyroid Gland | Preputial Gland |
| Salivary Glands | Seminal Vesicle | Skin | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---------------------------------|--------------------------|----------------------------|-----------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Diffuse, Mild |
| Heart | | Cardiomyopathy | Minimal |
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 5-7 | | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Fatty Change | Moderate |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Mild |
| Note: ANOM HEPAT LOB TGLs = 7-3 | | | |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 1-1,1-2] | | | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 4-8 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Prostate | | Inflammation | Chronic, Minimal |
| Spleen | | Congestion | Moderate |
| Note: CONGESTION TGLs = 3-3 | | | |
| Testes | Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 74

TRT#: 2

SEX: Male

DAY ON TEST: 611

DOSE: .0125 G/KG 72LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 75 | TRT#: 2 | SEX: Male | DAY ON TEST: 729 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pituitary Gland

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 3-3

Kidney

Nephropathy

Moderate

Renal Tubule

Pigmentation

Hemosiderin, Moderate

Liver

Leukemia Mononuclear

Lymph Node

Mesenteric

Pigmentation

Minimal

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 4-3

Spleen

Leukemia Mononuclear

Testes

Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 76

TRT#: 2

SEX: Male

DAY ON TEST: 568

DOSE: .0125 G/KG 72LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lymph Node - Mesenteric | Pancreas | Parathyroid Gland |
| Preputial Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Skin | Spleen | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | |
|-------------------------|---------------|
| Lymph Node - Mandibular | Mammary Gland |
|-------------------------|---------------|

OBSERVATIONS

| | | | |
|-------------------------------|--------------------------|----------------|-------------------|
| Heart | | Cardiomyopathy | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT | TGLs = 3-7 | | |
| Kidney | | Nephropathy | Mild |
| Liver | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 2-1,2-2] | | | |
| Nose | Nasolacrim Dct | Inflammation | Chronic, Moderate |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |
| Stomach | Forestomach | Ulcer | Marked |
| Note: ULCER | TGLs = 5-7 | | |
| Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|-------------------|-------------------------|
| ANIMAL ID: 78 | TRT#: 2 | SEX: Male | DAY ON TEST: 435 |
| | DOSE: .0125 G/KG 72LM | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Mandibular

OBSERVATIONS

| | | | |
|------------------|--------------------------|--------------|---------------|
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | | Nephropathy | Mild |
| Liver | | Fatty Change | Moderate |
| Lung | | Congestion | Moderate |
| Note: CONGESTION | TGLs = 2 | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Preputial Gland | | Inflammation | Chronic, Mild |
| Testes | Interstit Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 79 | TRT#: 2 | SEX: Male | DAY ON TEST: 730 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-----------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Pituitary Gland | Preputial Gland |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|----------------------------------|---------------------------|--------------|--------------------------|
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 4-3 | | | |
| Kidney | | Nephropathy | Mild |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 3-2 | | | |
| Spleen | | Hyperplasia | Reticulum Cell, Moderate |
| Note: HYPERPLASIA TGLs = 5-4 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 6-5,7-5,8-5 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 80

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: .0125 G/KG 72LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pituitary Gland

Urinary Bladder

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland

Bilateral, Medulla

Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 7-2

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 4-3

Kidney

Renal Tubule

Nephropathy

Moderate

Pigmentation

Hemosiderin, Moderate

Congestion

Moderate

Lung

Note: CONGESTION TGLs = 2-4,2-5

Lymph Node

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 5-3

Preputial Gland

Carcinoma

Note: CARCINOMA TGLs = 1-7

Spleen

Sarcoma

Note: [SARCOMA] TGLs = 6-5

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 81 | TRT#: 2 | SEX: Male | DAY ON TEST: 730 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Urinary Bladder

OBSERVATIONS

| | | | | |
|-----------------|------------|---------------------------|--------------|-----------------------|
| Adrenal Gland | | Cortex | Hypertrophy | Minimal |
| Intestine Small | | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 4-3 | | | |
| Kidney | | Renal Tubule | Nephropathy | Moderate |
| | | Mesenteric | Pigmentation | Hemosiderin, Moderate |
| Lymph Node | | Pancreatic | Pigmentation | Mild |
| | | | | Marked |
| Note: PIGMENT | TGLs = 3-3 | | | |
| Mesentery | | Fat | Necrosis | Focal, Marked |
| Note: NECROSIS | TGLs = 2-5 | | | |
| Pituitary Gland | | Pars Distalis | Hyperplasia | Focal, Moderate |
| Testes | | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 1-4 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 82 | TRT#: 2 | SEX: Male | DAY ON TEST: 730 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

| | | | |
|---|---------------------------|----------------------------|-----------------------|
| Adrenal Gland | Cortex | Hypertrophy | Focal, Minimal |
| | Medulla | Pheochromocytoma Benign | |
| Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED. | | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 3-3 | | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Hepatodiaphragmatic Nodule | |
| Note: ANOM HEPAT LOB TGLs = 2-4 | | | |
| Lymph Node | Mesenteric | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 6-2 | | | |
| Note: PIGMENT TGLs = 7-3 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 4-2 | | | |
| Skin | Head | Inflammation | Acute, Moderate |
| Note: INFLAMMATION TGLs = 1-4 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 5-5 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 83 | TRT#: 2 | SEX: Male | DAY ON TEST: 730 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Urinary Bladder

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 2-3

Kidney

Nephropathy

Marked

Renal Tubule

Pigmentation

Hemosiderin, Moderate

Mesenteric

Pigmentation

Marked

Lymph Node

Note: PIGMENT TGLs = 3-2

Pancreas

Acinus

Adenoma

Multiple

Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Moderate

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 85 | TRT#: 2 | SEX: Male | DAY ON TEST: 730 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Pituitary Gland | Urinary Bladder |
|---|---------------------------|-----------------|-------------------|
| OBSERVATIONS | | | |
| Intestine Small Note: PIGMENT TGLs = 3-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy | Mild |
| Lymph Node | Mesenteric | Pigmentation | Hemosiderin, Mild |
| Note: PIGMENT TGLs = 5-3 | Pancreatic | Pigmentation | Mild |
| Note: PIGMENT TGLs = 4-2 | | | Marked |
| Mesentery | Fat | Necrosis | Focal, Marked |
| Note: NECROSIS TGLs = 2-5 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 1-4 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 86

TRT#: 2

SEX: Male

DAY ON TEST: 482

DOSE: .0125 G/KG 72LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|--------------------|--------------------------|--------------|-----------------------|
| Heart | Artery, Myocardium | Inflammation | Chronic, Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | Artery, Pelvis | Inflammation | Chronic, Moderate |
| | | Nephropathy | Mild |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mediastinal | Congestion | Moderate |
| | Mesenteric | Pigmentation | Moderate |
| Note: CONGESTION | TGLs = 3 | | |
| Note: PIGMENT | TGLs = 4 | | |
| Mesentery | Artery | Inflammation | Chronic, Marked |
| Note: INFLAMMATION | TGLs = 5 | | |
| Pancreas | Artery | Inflammation | Chronic, Marked |
| Note: INFLAMMATION | TGLs = 8 | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| Preputial Gland | | Inflammation | Chronic, Mild |
| Stomach | Glandular, Muscularis | Inflammation | Chronic, Moderate |
| | Glandular, Serosa | Inflammation | Chronic, Marked |
| Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 86

TRT#: 2

SEX: Male

DAY ON TEST: 482

DOSE: .0125 G/KG 72LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 87 | TRT#: 2 | SEX: Male | DAY ON TEST: 733 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-----|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Eye | Lymph Node - Mesenteric |
| Pituitary Gland | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|----------------|-----------------------|
| Heart | | Cardiomyopathy | Moderate |
| Note: CARDIOMYOPATHY TGLs = 7-5 | | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Lung | | Congestion | Marked |
| | | Inflammation | Granulomatous, Mild |
| Note: CONGESTION TGLs = 6-4,6-5 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 4-6,5-6 | | | |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 88

TRT#: 2
DOSE: .0125 G/KG 72LM

SEX: Male
DISP: Dead

DAY ON TEST: 488
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Mandibular

OBSERVATIONS

| | | | |
|---|---------------------------|--------------|----------------|
| Intestine Small Note: PIGMENT TGLs = 5 | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | | Nephropathy | Moderate |
| Liver Note: FATTY CHANGE TGLs = 8 | | Fatty Change | Moderate |
| Lung [Congestion TGLS = 2] | | Congestion | Moderate |
| Lymph Node | Mediastinal | Pigmentation | Moderate |
| | Mesenteric | Pigmentation | Moderate |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |
| Preputial Gland | | Adenoma | |
| Note: [ADENOMA] TGLs = 1 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 89

TRT#: 2

SEX: Male

DAY ON TEST: 360

DOSE: .0125 G/KG 72LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Kidney | Lymph Node - Mesenteric | Pituitary Gland |
| Preputial Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Testes | Thymus | Thyroid Gland | Trachea |

MISSING

| | | |
|-------------------------|---------------|-------------------|
| Lymph Node - Mandibular | Mammary Gland | Parathyroid Gland |
|-------------------------|---------------|-------------------|

OBSERVATIONS

| | | | |
|--------------------|--------------------------|----------------|-------------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT | TGLs = 7 | | |
| Liver | | Fatty Change | Marked |
| Note: FATTY CHANGE | TGLs = 5 | | |
| Lung | | Congestion | Moderate |
| | Perivascular | Inflammation | Chronic, Moderate |
| Note: CONGESTION | TGLs = 1 | | |
| Nose | Sinus | Inflammation | Chronic, Mild |
| Pancreas | Acinus | Atrophy | Moderate |
| Urinary Bladder | Transit Epithe | Carcinoma | |
| Note: CARCINOMA | TGLs = 6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|-------------------|-------------------------|
| ANIMAL ID: 90 | TRT#: 2 | SEX: Male | DAY ON TEST: 672 |
| | DOSE: .0125 G/KG 72LM | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------|-----------------|-----------------------|
| Adrenal Gland - Medulla | Eye | Pituitary Gland | Stomach - Forestomach |
| Stomach - Glandular | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|----------------------------|-----------------------|
| Adrenal Gland | Cortex | Hypertrophy | Minimal |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 10-3 | | | |
| Kidney | Renal Tubule | Nephropathy | Moderate |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Fatty Change | Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| Note: ANOM HEPAT LOB TGLs = 9-6 | | | |
| Lung | | Congestion | Marked |
| Note: CONGESTION TGLs = 4-4,4-5 | | | |
| Lymph Node | Mesenteric | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 8-3 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 6-7 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|-----------------------|-------------------------|
| ANIMAL ID: 91 | TRT#: 2 | SEX: Male | DAY ON TEST: 639 |
| | DOSE: .0125 G/KG 72LM | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla Eye

OBSERVATIONS

| | | | |
|--|---------------------------|-------------------------|-----------------------|
| Adrenal Gland | Cortex | Hyperplasia | Focal, Marked |
| | Cortex | Hypertrophy | Minimal |
| Epididymis | Serosa | Mesothelioma Malignant | |
| Note: MESOTHELIO MAL TGLs = 4-5 | | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 7-3 | | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | Bile Duct | Fatty Change | Minimal |
| | Serosa | Hyperplasia | Minimal |
| Lymph Node | Mesenteric | Mesothelioma Malignant | |
| | Pancreatic | Pigmentation | Mild |
| Note: PIGMENT TGLs = 12-3 | | Pigmentation | Marked |
| Mesentery | | Mesothelioma Malignant | |
| Note: MESOTHELIO MAL TGLs = 8-4,5-6 | | | |
| Nose | Nares | Squamous Cell Papilloma | |
| Note: PAPILOMA SQUA TGLs = 11-8 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| Preputial Gland | | Adenoma | |
| | | Inflammation | Suppurative, Moderate |
| Note: [ADENOMA] TGLs = 2-6 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| | Tunic | Mesothelioma Malignant | |
| Note: ADENOMA TGLs = 3-5 | | | |
| Urinary Bladder | Serosa | Mesothelioma Malignant | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 92

TRT#: 2

SEX: Male

DAY ON TEST: 687

DOSE: .0125 G/KG 72LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Seminal Vesicle

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Cortex

Vacuolization Cytoplasmic

Minimal

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Moderate

Note: PIGMENT TGLs = 4-3

Kidney

Renal Tubule

Nephropathy

Moderate

Pigmentation

Hemosiderin, Moderate

Liver

Bile Duct

Fatty Change

Moderate

Hyperplasia

Minimal

Note: FATTY CHANGE TGLs = 6-5

Lymph Node

Mesenteric

Pigmentation

Moderate

Note: PIGMENT TGLs = 7-2

Pituitary Gland

Pars Distalis

Adenoma

Note: [ADENOMA] TGLs = 5-2

Testes

Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 93 | TRT#: 2 | SEX: Male | DAY ON TEST: 733 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|------------------------|-----------------|
| Adrenal Gland - Cortex | Urinary Bladder |
|------------------------|-----------------|

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|---------------------------|-----------------------|
| Adrenal Gland | Medulla | Hyperplasia | Focal, Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 6-3 | | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | Mesenteric | Pigmentation | Hemosiderin, Moderate |
| Lymph Node | | Pigmentation | Mild |
| Mesentery | | Mesothelioma Malignant | |
| Note: MESOTHELIO MAL TGLs = 5-5 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Cyst Epithelial Inclusion | |
| Note: CYST EPITH INC TGLs = 2-5 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| | Tunic | Mesothelioma Malignant | |
| Note: ADENOMA TGLs = 4-4 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 95 | TRT#: 2 | SEX: Male | DAY ON TEST: 733 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------|-------------------------|-----------------|
| Adrenal Gland - Medulla | Eye | Lymph Node - Mesenteric | Pituitary Gland |
| Seminal Vesicle | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|---------------------------|------------------------------|-------------------|
| Adrenal Gland Note: DEGEN TGLs = 8-2 | Cortex | Degeneration | Marked |
| Intestine Small Note: PIGMENT TGLs = 7-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy | Mild |
| Skin Note: FIBROSARC TGLs = 2-5 | Subcut Tiss | Pigmentation Fibrosarcoma | Hemosiderin, Mild |
| Testes Note: ADENOMA TGLs = 4-4,5-4,6-4 | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 96 **TRT#:** 2 **SEX:** Male **DAY ON TEST:** 648
DOSE: .0125 G/KG 72LM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-----------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Pituitary Gland | Seminal Vesicle |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|---------------------------|----------------------|-----------------------|
| Intestine Small Note: PIGMENT TGLs = 9-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy | Mild |
| Liver | Bile Duct | Pigmentation | Hemosiderin, Moderate |
| Note: LEUKEMIA MONUC TGLs = 10-6 | | Hyperplasia | Mild |
| Lung Note: LEUKEMIA MONUC TGLs = 2-4,2-5 | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 7-3 | Mesenteric | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 8-2 | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 3-5] | | | |
| Spleen Note: LEUKEMIA MONUC TGLs = 6-6 | | Leukemia Mononuclear | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 5-7 | Seminif Tub | Degeneration | Marked |
| Note: DEGEN TGLs = 5-7 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 97 | TRT#: 2 | SEX: Male | DAY ON TEST: 733 |
| | DOSE: .0125 G/KG 72LM | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| Adrenal Gland - Medulla | Lymph Node - Mesenteric | Pituitary Gland | Urinary Bladder |
|---------------------------------|--------------------------|---------------------------|-------------------|
| OBSERVATIONS | | | |
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 6-3 | | | |
| Islets, Pancreatic | | Adenoma | |
| Kidney | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Mild |
| Liver | | Basophilic Focus | |
| Lung | | Congestion | Moderate |
| Note: CONGESTION TGLs = 2-4,2-5 | | | |
| Pancreas | Artery, Media | Hyperplasia | Marked |
| Note: HYPERPLASIA TGLs = 5-3 | | | |
| Testes | Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 3-7,4-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|-------------------|-------------------------|
| ANIMAL ID: 98 | TRT#: 2 | SEX: Male | DAY ON TEST: 686 |
| | DOSE: .0125 G/KG 72LM | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Lymph Node - Mesenteric | Pituitary Gland |
|------------------------|-------------------------|-------------------------|-----------------|

AUTO PRECLUDES DIAG.

Urinary Bladder

OBSERVATIONS

| | | | |
|---|--------------------------|---------------------------|---------------------|
| Intestine Small Note: PIGMENT TGLs = 4-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney Lung Note: CONGESTION TGLs = 2-4,2-5 | | Nephropathy Congestion | Minimal Moderate |
| Lymph Node Note: CONGESTION TGLs = 5-5 | Mediastinal | Congestion | Marked |
| Skin Note: TRICHOEPITHEL TGLs = 1-7 | | Trichoepithelioma | |
| Testes Note: ADENOMA TGLs = 3-6 | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 99

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: .0125 G/KG 72LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node - Mesenteric

Pituitary Gland

Spleen

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Hyperplasia

Focal, Mild

Medulla

Pheochromocytoma Benign

Medulla

Pheochromocytoma Malignant

[Pheochromocytoma Benign TGLS = 7-2]

[Pheochromocytoma Malignant TGLS = 8-2]

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Renal Tubule

Hyperplasia

Focal, Mild

Nephropathy

Marked

Renal Tubule

Pigmentation

Hemosiderin, Moderate

[Nephropathy TGLS = 9-1,10-1]

Liver

Bile Duct

Hyperplasia

Mild

Lymph Node

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 12-3

Mesentery

Fat

Necrosis

Focal, Marked

Note: NECROSIS TGLs = 6-6

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-5,3-5

Thyroid Gland

C Cell

Adenoma

Note: [ADENOMA] TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 100

TRT#: 2

SEX: Male

DAY ON TEST: 454

DOSE: .0125 G/KG 72LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | | |
|-----------|---------------|-------------------|
| Esophagus | Mammary Gland | Parathyroid Gland |
|-----------|---------------|-------------------|

OBSERVATIONS

| | | | |
|------------------------------|--------------------------|-------------------------|--|
| Brain | Pons | Hemorrhage | Moderate |
| | | Squamous Cell Carcinoma | Early Invasion (Zymbal'S Gland), Metastatic (Zymbal'S Gland) |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 7 | | | |
| Kidney | | Nephropathy | Mild |
| Liver | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mediastinal | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 8 | | | |
| Note: PIGMENT TGLs = 3 | | | |
| Testes | Interstit Cell | Adenoma | |
| Zymbal's Gland | | Carcinoma | |
| Note: [CARCINOMA] TGLs = 6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 101

TRT#: 2

SEX: Male

DAY ON TEST: 467

DOSE: .0125 G/KG 72LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Pancreas |
| Parathyroid Gland | Salivary Glands | Seminal Vesicle | Skin |
| Spleen | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|-----------------|--------------------------|----------------|-----------------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT | TGLs = 5 | | |
| Kidney | Renal Tubule | Nephropathy | Moderate |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Fatty Change | Mild |
| | Mesenteric | Hyperplasia | Mild |
| Lymph Node | | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 4 | | |
| Mammary Gland | | Hyperplasia | Cystic, Moderate |
| Nose | Nasolacrim Dct | Inflammation | Chronic, Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 6 | | |
| Preputial Gland | | Inflammation | Chronic, Mild |
| Prostate | | Inflammation | Suppurative, Moderate |
| Stomach | Forestomach | Pigmentation | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 104

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: .0125 G/KG 72LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Malignant

Cortex

Vacuolization Cytoplasmic

Minimal

Note: PHEOCHROM MAL TGLs = 4-2

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Mild

Kidney

Nephropathy

Marked

Lung

Congestion

Marked

Note: CONGESTION TGLs = 3-4,3-5

Pheochromocytoma Malignant

Metastatic (Adrenal Gland)

Lymph Node

Mesenteric

Pigmentation

Mild

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 5-3

Pituitary Gland

Pars Distalis

Angiectasis

Focal, Moderate

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1-6,2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 105

TRT#: 2

SEX: Male

DAY ON TEST: 681

DOSE: .0125 G/KG 72LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Lymph Node - Mesenteric

Pituitary Gland

AUTO PRECLUDES DIAG.

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Vacuolization Cytoplasmic

Minimal

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Moderate

Note: PIGMENT TGLs = 4-3

Kidney

Nephropathy

Marked

Lung

Congestion

Marked

Note: CONGESTION TGLs = 1-4,1-5

Spleen

Congestion

Marked

Note: CONGESTION TGLs = 3-5

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 106

TRT#: 2

SEX: Male

DAY ON TEST: 561

DOSE: .0125 G/KG 72LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Epididymis |
| Esophagus | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Pancreas | Parathyroid Gland | Preputial Gland |
| Salivary Glands | Seminal Vesicle | Skin | Spleen |
| Stomach - Glandular | Thymus | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|------------------------|-------------------|
| Adrenal Gland | Cortex | Hyperplasia | Focal, Mild |
| Brain | | Glioma Nos | |
| Note: [GLIOMA NOS] TGLs = 8-5 | | | |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 3-7 | | | |
| Kidney | | Nephropathy | Marked |
| Note: NEPHROPATHY TGLs = 5-4 | | | |
| Liver | Bile Duct | Hyperplasia | Moderate |
| Lung | | Congestion | Moderate |
| Nose | Sinus | Inflammation | Chronic, Mild |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |
| Prostate | | Inflammation | Suppurative, Mild |
| Stomach | Forestomach | Pigmentation | Mild |
| Note: PIGMENT TGLs = 9-7 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| | Tunic | Mesothelioma Malignant | |
| Thyroid Gland | C Cell | Adenoma | |
| Note: ADENOMA TGLs = 2-8 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 108

TRT#: 2

SEX: Male

DAY ON TEST: 581

DOSE: .0125 G/KG 72LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone Marrow | Brain | Epididymis |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Nose | Pancreas |
| Parathyroid Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Skin | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|-------------------------------------|---------------------------|----------------------------------|-------------------|
| Adrenal Gland | Cortex | Hypertrophy | Minimal |
| | Cortex | Vacuolization Cytoplasmic | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Mild |
| Note: PIGMENT TGLs = 4-7 | | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Mild |
| Liver | Bile Duct | Hematopoietic Cell Proliferation | Minimal |
| | | Hyperplasia | Minimal |
| Note: [HEMA CELL PROL] TGLs = 6-3 | | | |
| Lymph Node | Mesenteric | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 5-8 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 7-8 | | | |
| Preputial Gland | | Carcinoma | |
| Note: CARCINOMA TGLs = 1-10 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Marked |
| Note: HEMA CELL PROL TGLs = 3-3 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 110

TRT#: 2

SEX: Male

DAY ON TEST: 291

DOSE: .0125 G/KG 72LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Nose
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Heart
Pituitary Gland
Seminal Vesicle
Stomach - Glandular

Bone
Lymph Node - Mandibular
Preputial Gland
Skin
Testes

Bone Marrow
Lymph Node - Mesenteric
Prostate
Spleen
Thymus

MISSING

Epididymis
Pancreas

Esophagus
Parathyroid Gland

Islets, Pancreatic

Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Intestine Small - Ileum
Thyroid Gland

Intestine Large - Colon
Intestine Small - Jejunum
Trachea

Intestine Large - Rectum
Kidney

Intestine Small - Duodenum
Liver

OBSERVATIONS

Intestine Small
Lung

Duodenum, Lamina Propria

Pigmentation
Congestion

Minimal
Marked

Note: CONGESTION TGLs = 2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 111

TRT#: 2

SEX: Male

DAY ON TEST: 450

DOSE: .0125 G/KG 72LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Eye | Harderian Gland | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Pancreas | Parathyroid Gland | Pituitary Gland |
| Preputial Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | | |
|-------------------------|---------------|--------|
| Lymph Node - Mandibular | Mammary Gland | Thymus |
|-------------------------|---------------|--------|

OBSERVATIONS

| | | | |
|-----------------------------|--------------------------|---------------------------|---------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Minimal |
| Esophagus | Periesoph Tiss | Inflammation | Suppurative, Marked |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | | Nephropathy | Minimal |
| Liver | | Fatty Change | Moderate |
| | Bile Duct | Hyperplasia | Mild |
| Note: FATTY CHANGE TGLs = 6 | | | |
| Lung | | Congestion | Moderate |
| | Alveolus | Inflammation | Acute, Moderate |
| Note: CONGESTION TGLs = 1 | | | |
| Lymph Node | Mesenteric | Hyperplasia | Lymphoid, Moderate |
| Note: HYPERPLASIA TGLs = 4 | | | |
| Nose | Nasolacrim Dct | Inflammation | Chronic, Mild |
| Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 112

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: .0125 G/KG 72LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Lymph Node - Mesenteric

Spleen

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 4-2

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Nephropathy

Moderate

Renal Tubule

Pigmentation

Hemosiderin, Moderate

Lymph Node

Pancreatic

Pigmentation

Marked

Pituitary Gland

Pars Distalis

Adenoma

Note: [ADENOMA] TGLs = 5-2

Skin

Basal Cell Adenoma

Note: [BASAL CEL ADEN] TGLs = 1-5

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 113

TRT#: 2

SEX: Male

DAY ON TEST: 653

DOSE: .0125 G/KG 72LM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
 Urinary Bladder

Adrenal Gland - Medulla

Lymph Node - Mesenteric

Stomach - Glandular

OBSERVATIONS

Intestine Small
 Note: PIGMENT TGLs = 3-3

Duodenum, Lamina Propria

Pigmentation

Moderate

Islets, Pancreatic

Adenoma

Kidney

Nephropathy

Mild

Lymph Node

Lumbar

Hyperplasia

Lymphoid, Moderate

Pancreatic

Pigmentation

Moderate

Renal

Pigmentation

Mild

Note: PIGMENT TGLs = 5-3

Note: HYPERPLASIA TGLs = 7-5

[Pigmentation TGLs = 8-4]

Mesentery

Fat

Necrosis

Focal, Marked

Note: NECROSIS TGLs = 4-6

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 9-2

Preputial Gland

Carcinoma

Note: CARCINOMA TGLs = 1-5

Stomach

Forestomach

Pigmentation

Moderate

Note: PIGMENT TGLs = 6-4

Testes

Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 114

TRT#: 2

SEX: Male

DAY ON TEST: 608

DOSE: .0125 G/KG 72LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Mammary Gland | Nose | Parathyroid Gland | Preputial Gland |
| Salivary Glands | Seminal Vesicle | Skin | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-------------------------|----------|
| Lymph Node - Mandibular | Prostate |
|-------------------------|----------|

OBSERVATIONS

| | | | |
|------------------|---------------------------|---------------------------|-------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Focal, Mild |
| Intestine Large | Rectum | Parasite Metazoan | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | | Nephropathy | Moderate |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Congestion | Marked |
| Lung | | | |
| Note: CONGESTION | TGLs = 1-1,3-2 | | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Note: PIGMENT | TGLs = 4-8 | | |
| Pancreas | Acinus | Atrophy | Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 115

TRT#: 2

SEX: Male

DAY ON TEST: 708

DOSE: .0125 G/KG 72LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Vacuolization Cytoplasmic

Mild

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Moderate

Note: PIGMENT TGLs = 4-3

Kidney

Renal Tubule

Nephropathy

Marked

Pigmentation

Hemosiderin, Moderate

Liver

Basophilic Focus

Congestion

Moderate

Bile Duct

Hyperplasia

Mild

Note: CONGESTION TGLs = 6-6

Lung

Congestion

Moderate

Note: CONGESTION TGLs = 1-4,1-5

Lymph Node

Mesenteric
Pancreatic

Pigmentation

Marked

Pigmentation

Mild

Note: PIGMENT TGLs = 2-2

Note: PIGMENT TGLs = 3-3

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 7-2

Testes

Interstitial Cell

Adenoma

Note: ADENOMA TGLs = 8-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 116

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: .0125 G/KG 72LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Pituitary Gland

Urinary Bladder

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 4-3

Kidney

Nephropathy

Marked

Renal Tubule

Pigmentation

Hemosiderin, Mild

Note: NEPHROPATHY TGLs = 5-1

Lymph Node

Mesenteric

Pigmentation

Moderate

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 6-3

Note: PIGMENT TGLs = 3-2

Skin

Squamous Cell Papilloma

Note: PAPILOMA SQUA TGLs = 1-5

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|-----------------------|------------------------------|-------------------|-------------------------|
| ANIMAL ID: 117 | TRT#: 2 | SEX: Male | DAY ON TEST: 503 |
| | DOSE: .0125 G/KG 72LM | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-------------------------|-----------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Rectum | Islets, Pancreatic | Kidney | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Nose | Pancreas | Pituitary Gland |
| Preputial Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

AUTO PRECLUDES DIAG.

| | | | |
|-------------------------|-------------------------|-------------------------|---------------------------|
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------------------|-------------------------|-------------------------|---------------------------|

OBSERVATIONS

| | | | |
|---|--------------------------|--------------|-----------------|
| Intestine Small Note: PIGMENT TGLs = 8 | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Liver Note: FATTY CHANGE TGLs = 6 | | Fatty Change | Moderate |
| Lung Note: CONGESTION TGLs = 1 | | Congestion | Marked |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| Testes Note: ADENOMA TGLs = 2 | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 118

TRT#: 2

SEX: Male

DAY ON TEST: 604

DOSE: .0125 G/KG 72LM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lymph Node - Mesenteric | Nose | Pancreas | Parathyroid Gland |
| Preputial Gland | Salivary Glands | Seminal Vesicle | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | | |
|-------------------------|---------------|--------|
| Lymph Node - Mandibular | Mammary Gland | Thymus |
|-------------------------|---------------|--------|

OBSERVATIONS

| | | | |
|----------------------------------|--------------------------|----------------|-------------------|
| Adrenal Gland | Cortex | Hyperplasia | Focal, Mild |
| Heart | | Cardiomyopathy | Moderate |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 4-7 | | | |
| Kidney | | Nephropathy | Moderate |
| Liver | | Congestion | Marked |
| | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| Note: CONGESTION TGLs = 7-3 | | | |
| Lung | | Congestion | Marked |
| [Congestion TGLS = 1-1,1-2] | | | |
| Lymph Node | Pancreatic | Pigmentation | Marked |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |
| Prostate | | Inflammation | Suppurative, Mild |
| Testes | Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 3-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 119

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: .0125 G/KG 72LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node - Mesenteric

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Hyperplasia

Focal, Mild

Medulla

Pheochromocytoma Benign

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 3-3

Kidney

Nephropathy

Mild

Renal Tubule

Pigmentation

Hemosiderin, Mild

Pars Distalis

Adenoma

Pituitary Gland

Note: [ADENOMA] TGLs = 5-2

Testes

Interstitial Cell

Adenoma

Mild

Interstitial Cell

Hyperplasia

Note: ADENOMA TGLs = 1-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 120

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: .0125 G/KG 72LM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Lymph Node - Mesenteric

Seminal Vesicle

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Focal, Mild

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 5-3

Kidney

Renal Tubule

Nephropathy
Pigmentation

Marked

Hemosiderin, Moderate

Moderate

Lung

Note: CONGESTION TGLs = 4-4,4-5

Lymph Node

Pancreatic

Pigmentation

Moderate

Note: PIGMENT TGLs = 7-3

Pituitary Gland

Pars Distalis

Adenoma

Note: [ADENOMA] TGLs = 6-2

Testes

Bilateral, Interstit Cell
Seminif Tub

Adenoma
Degeneration

Marked

Note: ADENOMA TGLs = 1-6,2-6

Note: DEGEN TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 121

TRT#: 3

SEX: Male

DAY ON TEST: 510

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|---|--------------------------|------------------------------|---------------------------------|
| Adrenal Gland Note: VACUOLIZ CYTO TGLs = 7 | Cortex | Vacuolization Cytoplasmic | Marked |
| Heart | | Cardiomyopathy | Moderate |
| Intestine Small Note: PIGMENT TGLs = 6 | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney Note: NEPHROPATHY TGLs = 8 | Renal Tubule | Nephropathy Pigmentation | Marked Hemosiderin, Moderate |
| Liver | | Fatty Change | Mild |
| Lymph Node Note: PIGMENT TGLs = 5 | Mesenteric Pancreatic | Pigmentation Pigmentation | Marked Marked |
| Stomach Note: ULCER TGLs = 10 | Forestomach | Ulcer | Marked |
| Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 122

TRT#: 3

SEX: Male

DAY ON TEST: 562

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------|--------------------------|------------------|----------|
| Heart | | Cardiomyopathy | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 4-7 | | |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| Lung | | Congestion | Marked |
| Note: CONGESTION | TGLs = 1-1,1-2 | | |
| Lymph Node | Mesenteric | Pigmentation | Moderate |
| Note: PIGMENT | TGLs = 3-8 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 5-8 | | |
| Stomach | Forestomach | Acanthosis | Mild |
| Note: ACANTHOSIS | TGLs = 6-7 | | |
| Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 123

TRT#: 3

SEX: Male

DAY ON TEST: 492

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Liver | Lung | Lymph Node - Mandibular | Nose |
| Pancreas | Pituitary Gland | Preputial Gland | Prostate |
| Salivary Glands | Seminal Vesicle | Skin | Spleen |
| Stomach - Forestomach | Thymus | Thyroid Gland | Trachea |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--|---------------------------|-------------------|-----------------------|
| Adrenal Gland | Medulla | Hyperplasia | Focal, Moderate |
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 8 | | | |
| Kidney | Renal Tubule | Hyperplasia | Focal, Mild |
| | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Note: NEPHROPATHY TGLs = 6 | | | |
| Lymph Node | Renal | Congestion | Marked |
| | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| [Congestion TGLS = 7] | | | |
| [Pigmentation TGLS = 5] | | | |
| Parathyroid Gland | | Hyperplasia | Moderate |
| Note: PARATHYROID HYPERPLASIA SECONDARY TO RENAL DISEASE | | | |
| Stomach | Glandular | Mineralization | Moderate |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Urinary Bladder | | Concretion | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 124

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------|-------------------|-----------------------|
| Adrenal Gland - Medulla | Brain | Epididymis | Esophagus |
| Islets, Pancreatic | Lung | Parathyroid Gland | Prostate |
| Salivary Glands | Seminal Vesicle | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|-----------------|---------------------------|----------------|-----------------------|
| Adrenal Gland | Cortex | Hyperplasia | Focal, Mild |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 4-9 | | |
| Kidney | | Cyst | |
| | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Hyperplasia | Moderate |
| Lymph Node | Mandibular | Hyperplasia | Plasma Cell, Marked |
| | Mesenteric | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 6-9 | | |
| Pancreas | | Inflammation | Chronic, Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Preputial Gland | | Adenoma | |
| | | Inflammation | Chronic, Moderate |
| Note: ADENOMA | TGLs = 2-10 | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 3-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 125

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------|-------------------------|-----------|
| Adrenal Gland - Medulla | Brain | Epididymis | Esophagus |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Pancreas |
| Parathyroid Gland | Prostate | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-----------------|---------------------------|---------------------------|-----------------------|
| Adrenal Gland | Cortex | Hyperplasia | Focal, Mild |
| | Cortex | Vacuolization Cytoplasmic | Minimal |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 3-9 | | |
| Kidney | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 4-9 | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 2-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 128

TRT#: 3

SEX: Male

DAY ON TEST: 725

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|--------------------|-----------------------|---------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Eye | Islets, Pancreatic | Pancreas | Parathyroid Gland |
| Seminal Vesicle | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|---|---|---------------------------------|
| Adrenal Gland Note: PHEOCHROM BGN TGLs = 7-7 | Medulla | Pheochromocytoma Benign | |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small Note: PIGMENT TGLs = 6-9 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney Note: NEPHROPATHY TGLs = 9-4 | Renal Tubule | Nephropathy Pigmentation | Marked Hemosiderin, Moderate |
| Liver | | Basophilic Focus Clear Cell Focus | |
| Lung Note: ALV BRON ADEN TGLs = 10-1 | Bile Duct | Hyperplasia Alveolar/Bronchiolar Adenoma | Mild |
| Lymph Node Note: PIGMENT TGLs = 5-9 Note: PIGMENT TGLs = 11-8 Note: CYST TGLs = 3-2 | Mediastinal Mesenteric Pancreatic | Cyst Pigmentation Pigmentation | Marked Marked |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| Prostate | | Adenoma | |
| Testes Note: ADENOMA TGLs = 4-6 | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 129

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Pancreas
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Heart
Parathyroid Gland
Seminal Vesicle
Trachea

Brain
Lung
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Epididymis
Lymph Node - Mandibular
Prostate
Stomach - Glandular

OBSERVATIONS

Intestine Small
Note: PIGMENT TGLs = 4-9
Islets, Pancreatic

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Renal Tubule

Adenoma
Hyperplasia
Nephropathy
Pigmentation

Moderate
Marked
Hemosiderin, Moderate

Liver

Bile Duct

Hyperplasia

Mild

Lymph Node

Mesenteric

Pigmentation

Marked

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 5-9

Note: PIGMENT TGLs = 6-8

Spleen

Note: FIBROSIS TGLs = 2-3

Fibrosis

Mild

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 130 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 653
DOSE: .025G/KG72HM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------|-----------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Heart | Islets, Pancreatic | Lung |
| Lymph Node - Mandibular | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Seminal Vesicle | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|---------------------------|------------------|-----------------------|
| Eye | | Cataract | Moderate |
| Note: CATARACT | TGLs = 2-10 | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 8-9 | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 13-8 | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| Note: NECROSIS | TGLs = 9-10 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Skin | | Hyperkeratosis | Marked |
| | | Keratoacanthoma | |
| Note: KERATOACANTHMA | TGLs = 3 | | |
| Note: SKIN RECUT: TISSUE IS INSUFFICIENT FOR DIAGNOSIS | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 4-6,5-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 131

TRT#: 3

SEX: Male

DAY ON TEST: 715

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------------|-------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Islets, Pancreatic | Lymph Node - Mandibular | Parathyroid Gland |
| Prostate | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Urinary Bladder |

OBSERVATIONS

| | | | |
|------------------|---------------------------|------------------|-----------------------|
| Heart | | Cardiomyopathy | Moderate |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 5-9 | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Minimal |
| Lung | | Congestion | Moderate |
| Note: CONGESTION | TGLs = 2-1,2-2 | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 4-9 | | |
| Pancreas | Acinus | Atrophy | Mild |
| | Acinus | Hyperplasia | Focal, Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Preputial Gland | | Carcinoma | |
| Note: CARCINOMA | TGLs = 1-10 | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 7-6 | | |
| Trachea | Mucosa | Pigmentation | Moderate |
| Note: PIGMENT | TGLs = 3-9 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 132

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------------|---------------------|-----------------|
| Adrenal Gland - Medulla | Brain | Epididymis | Esophagus |
| Heart | Islets, Pancreatic | Lung | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Seminal Vesicle |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--------------------------------|---------------------------|---------------------------|-----------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Focal, Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 7-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Moderate |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| Lymph Node | Mandibular | Hyperplasia | Plasma Cell, Moderate |
| | Mesenteric | Pigmentation | Marked |
| Note: PIGMENT TGLs = 8-9 | | | |
| Mesentery | Artery | Inflammation | Acute, Marked |
| | Fat | Necrosis | Focal, Mild |
| Note: NECROSIS TGLs = 4-9 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 3-9 | | | |
| Tongue | | Squamous Cell Papilloma | |
| Note: PAPILOMA SQUA TGLs = 1-9 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 133

TRT#: 3

SEX: Male

DAY ON TEST: 595

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|-------------------------|-------------------------|
| Bone | Bone Marrow | Brain | Epididymis |
| Esophagus | Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node - Mandibular | Mammary Gland |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Preputial Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Skin | Stomach - Forestomach | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

MISSING

Intestine Large - Rectum

OBSERVATIONS

| | | | |
|---|--------------------------|----------------------|----------|
| Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 4-7 | | |
| Kidney | | Nephropathy | Mild |
| Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 6-3 | Necrosis | Mild |
| Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-1,1-2] | | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 3-8 | | |
| Spleen | | Cyst | |
| | | Leukemia Mononuclear | |
| Stomach | Glandular | Necrosis | Marked |
| Testes | Interstit Cell | Adenoma | |
| | Seminif Tub | Degeneration | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 133

TRT#: 3

SEX: Male

DAY ON TEST: 595

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DEGEN TGLs = 2-6

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 135

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------|-------------------------|-----------------|--------------------|
| Brain | Epididymis | Esophagus | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Pancreas | Parathyroid Gland |
| Pituitary Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Spleen | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-----------------|---------------------------|-------------------------|---------------------|
| Adrenal Gland | Cortex | Hyperplasia | Focal, Mild |
| | Medulla | Pheochromocytoma Benign | |
| Heart | | Cardiomyopathy | Moderate |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 2-9 | | |
| Kidney | Renal Tubule | Adenoma | |
| | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Stomach | Forestomach | Acanthosis | Mild |
| | Forestomach | Pigmentation | Moderate |
| Note: PIGMENT | TGLs = 4-7 | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 1-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 136 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 733
DOSE: .025G/KG72HM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|---------------------|-------------------------|-------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Parathyroid Gland |
| Preputial Gland | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|------------------------------------|---------------------------|----------------------------|-----------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| | Medulla | Pheochromocytoma Malignant | |
| Note: PHEOCHROM MAL TGLs = 5-7 | | | |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 8-9 | | | |
| Kidney | Renal Tubule | Hyperplasia | Focal, Minimal |
| | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| | | Basophilic Focus | |
| Liver | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Mild |
| Note: ANOM HEPAT LOB TGLs = 4-3 | | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Note: PIGMENT TGLs = 7-9 | | | |
| Pancreas | Acinus | Atrophy | Mild |
| | Artery | Hypertrophy | Marked |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 6-7 | | | |
| Prostate | | Inflammation | Suppurative, Moderate |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 3-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 137 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 541
DOSE: .025G/KG72HM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Nose | Pancreas | Preputial Gland |
| Salivary Glands | Seminal Vesicle | Stomach - Glandular | Testes |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | | |
|-------------------------|---------------|-------------------|
| Lymph Node - Mandibular | Mammary Gland | Parathyroid Gland |
|-------------------------|---------------|-------------------|

OBSERVATIONS

| | | | |
|---------------------------------------|--------------------------|---------------------------|---------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 6 | | | |
| Kidney | Renal Tubule | Hyperplasia | Focal, Minimal |
| | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Note: NEPHROPATHY TGLs = 7 | | | |
| Liver | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Minimal |
| Note: FATTY CHANGE TGLs = 8 | | | |
| Lung | Alveolar Epith | Pigmentation | Mild |
| Lymph Node | Mesenteric | Pigmentation | Moderate |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 9 | | | |
| Prostate | | Inflammation | Suppurative, Marked |
| Skin | | Squamous Cell Papilloma | |
| Note: [PAPILOMA SQUA] TGLs = 2 | | | |
| Spleen | | Pigmentation | Hemosiderin, Marked |
| Stomach | Forestomach | Ulcer | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 138 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 733
DOSE: .025G/KG72HM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------------|------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Islets, Pancreatic | Lymph Node - Mandibular | Pancreas |
| Parathyroid Gland | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|----------------------|---------------------------|------------------------------|-----------------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT | TGLs = 5-9 | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| Lung | | Alveolar/Bronchiolar Adenoma | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 4-9 | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| Note: NECROSIS | TGLs = 3-3 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Prostate | | Inflammation | Suppurative, Moderate |
| Skin | | Keratoacanthoma | |
| Note: KERATOACANTHMA | TGLs = 2-9 | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 140

TRT#: 3

SEX: Male

DAY ON TEST: 632

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone Marrow | Epididymis | Esophagus |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node - Mandibular | Mammary Gland |
| Pancreas | Parathyroid Gland | Salivary Glands | Seminal Vesicle |
| Skin | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

| | | | |
|-----|------|-----------------|--------|
| Eye | Nose | Pituitary Gland | Thymus |
|-----|------|-----------------|--------|

OBSERVATIONS

| | | | |
|----------------------|--------------------------|------------------------------|-----------------------|
| Adrenal Gland | Cortex | Leukemia Mononuclear | |
| Brain | Cerebellum | Leukemia Mononuclear | |
| | Cerebrum | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 10-5 | | |
| Note: LEUKEMIA MONUC | TGLs = 9-5 | | |
| Heart | | Cardiomyopathy | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 11-7 | | |
| Kidney | | Nephropathy | Moderate |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 8-3 | | |
| Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 5-1,5-2 | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Preputial Gland | | Carcinoma | |
| Note: CARCINOMA | TGLs = 3-10.1 | | |
| Prostate | | Inflammation | Suppurative, Mild |
| Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 140

TRT#: 3

SEX: Male

DAY ON TEST: 632

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 7-3

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 6-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 141

TRT#: 3

SEX: Male

DAY ON TEST: 468

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | 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 |
| Thymus | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|--------------------------|-------------------------|----------|
| Adrenal Gland Note: [PHEOCHROM BGN] TGLs = 5 | Medulla | Pheochromocytoma Benign | |
| Intestine Small Note: PIGMENT TGLs = 4 | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | | Nephropathy | Moderate |
| Liver | | Fatty Change | Mild |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Testes | Interstit Cell | Adenoma | |
| Thyroid Gland | C Cell | Carcinoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 142

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------------|---------------------|-------------------------|
| Adrenal Gland - Cortex | Epididymis | Esophagus | Heart |
| Intestine Small - Ileum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Parathyroid Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|------------------------------|---------------------------|----------------------------|-----------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Brain | | Granular Cell Tumor Benign | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 2-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mesenteric | Necrosis | Focal, Moderate |
| Pancreas | Acinus | Hyperplasia | Focal, Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 4-7 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 1-6 | | | |
| Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 143

TRT#: 3

SEX: Male

DAY ON TEST: 648

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------|---------------|-----------------|
| Adrenal Gland - Medulla | Ear | Epididymis | Esophagus |
| Islets, Pancreatic | Pancreas | Prostate | Seminal Vesicle |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Zymbal's Gland | | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|----------------------|--------------------------|---------------------------|-----------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Moderate |
| Brain | | Astrocytoma Malignant | |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 8-9 | | |
| Kidney | Renal Tubule | Nephropathy | Moderate |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Fatty Change | Moderate |
| | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 9-3 | | |
| Lung | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 3-1,3-2 | | |
| Lymph Node | Mandibular | Hyperplasia | Plasma Cell, Marked |
| | Mesenteric | Pigmentation | Mild |
| Note: PIGMENT | TGLs = 7-9 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 10-7 | | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 6-3 | | |
| Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 145

TRT#: 3

SEX: Male

DAY ON TEST: 588

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node - Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|---------------------------|---------------------------|-----------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Focal, Moderate |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 5-7 | | | |
| Kidney | Renal Tubule | Nephropathy | Moderate |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Fatty Change | Mild |
| | | Hyperplasia | Mild |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 3-1,3-2] | | | |
| Prostate | | Inflammation | Suppurative, Mild |
| Skin | Subcut Tiss | Schwannoma Malignant | |
| Note: [SCHWANNOMA MAL] TGLs = 1-9 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 146

TRT#: 3

SEX: Male

DAY ON TEST: 546

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|-------------------------|--------------------------|----------------|-----------------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 3 | | |
| Kidney | | Nephropathy | Moderate |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Hyperplasia | Mild |
| Lung | | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 1] | | | |
| Lymph Node | Mesenteric | Congestion | Marked |
| | Mesenteric | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 2 | | |
| Pituitary Gland | Pars Distalis | Carcinoma | |
| Prostate | | Inflammation | Suppurative, Mild |
| Stomach | Forestomach | Pigmentation | Minimal |
| | Forestomach | Ulcer | Moderate |
| Note: ULCER | TGLs = 6 | | |
| Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 147

TRT#: 3

SEX: Male

DAY ON TEST: 728

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------|-------------------|-----------------------|
| Brain | Epididymis | Esophagus | Islets, Pancreatic |
| Lymph Node - Mandibular | Pancreas | Parathyroid Gland | Prostate |
| Salivary Glands | Seminal Vesicle | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Tooth | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-----------------------------|--------------------------|---------------------------|-----------------------------|
| Adrenal Gland | Medulla | Hyperplasia | Focal, Mild |
| | Cortex | Vacuolization Cytoplasmic | Minimal |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 7-9 | | | |
| Kidney | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Hyperplasia | Moderate |
| Lung | | Carcinoma | Metastatic (Zymbal'S Gland) |
| Lymph Node | Mesenteric | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 6-9 | | | |
| Note: PIGMENT TGLs = 10-10 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |
| Skin | Subcut Tiss | Fibrosarcoma | |
| Note: FIBROSARC TGLs = 1-9 | | | |
| Testes | Interstit Cell | Adenoma | |
| | Seminif Tub | Degeneration | Marked |
| Note: DEGEN TGLs = 4-6 | | | |
| Zymbal's Gland | | Carcinoma | |
| Note: CARCINOMA TGLs = 2-11 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 148

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------------|-------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Lung | Lymph Node - Mandibular | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|-------------------------|-----------------------|
| Heart | | Cardiomyopathy | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 7-9 | | |
| Islets, Pancreatic | | Adenoma | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 8-9 | | |
| Note: PIGMENT | TGLs = 9 | | |
| Pancreas | Acinus | Hyperplasia | Focal, Moderate |
| Prostate | | Inflammation | Suppurative, Moderate |
| Skin | Subcut Tiss | Basal Cell Adenoma | |
| | | Fibroma | |
| | | Squamous Cell Carcinoma | |
| Note: FIBROMA | TGLs = 4-11 | | |
| Note: SQUAM CEL CARC | TGLs = 2-9 | | |
| Note: [BASAL CEL ADEN] | TGLs = 3-10 | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 6-6 | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 150

TRT#: 3

SEX: Male

DAY ON TEST: 677

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------|---------------------|-----------------|--------------------|
| Epididymis | Esophagus | Heart | Islets, Pancreatic |
| Pancreas | Parathyroid Gland | Pituitary Gland | Prostate |
| Seminal Vesicle | Stomach - Glandular | Trachea | |

OBSERVATIONS

| | | | |
|-------------------------------------|--------------------------|---------------------------|-----------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| | Cortex | Vacuolization Cytoplasmic | Minimal |
| Note: PHEOCHROM BGN TGLs = 10-7 | | | |
| Brain | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 13-5 | | | |
| Eye | Antr Chamber | Inflammation | Suppurative, Moderate |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 9-9 | | | |
| Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 12-3 | | | |
| Lung | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 5-1,5-2 | | | |
| Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Renal | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 8-10 | | | |
| Note: LEUKEMIA MONUC TGLs = 7-9 | | | |
| Note: LEUKEMIA MONUC TGLs = 4-2 | | | |
| Note: LEUKEMIA MONUC TGLs = 3-8 | | | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 6-3 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 150

TRT#: 3

SEX: Male

DAY ON TEST: 677

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|---------------------------|----------------------|------|
| Stomach | Forestomach | Leukemia Mononuclear | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Thyroid Gland | C Cell | Adenoma | Mild |
| Urinary Bladder | | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 151

TRT#: 3

SEX: Male

DAY ON TEST: 644

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|--------------------|-------------------------|---------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Heart | Islets, Pancreatic | Lymph Node - Mandibular | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Salivary Glands |
| Seminal Vesicle | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---|---------------------------|----------------------------|----------------------|
| Adrenal Gland Note: PHEOCHROM MAL TGLs = 8-7.1 | Medulla | Pheochromocytoma Malignant | |
| Intestine Small Note: PIGMENT TGLs = 7-9 | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | | Nephropathy | Mild |
| Liver Note: CONGESTION TGLs = 9-3 | Bile Duct | Congestion Hyperplasia | Moderate Minimal |
| Lung Note: CONGESTION TGLs = 3-1,3-2 | | Adenomatosis Congestion | Moderate Moderate |
| Lymph Node Note: PIGMENT TGLs = 6-9 | Mesenteric | Pigmentation | Mild |
| Testes Note: ADENOMA TGLs = 5-6 | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 152

TRT#: 3

SEX: Male

DAY ON TEST: 610

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | 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 |
| Thymus | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|-----------------|---------------------------|------------------|-------------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 6-7 | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Mild |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Mild |
| Mesentery | Fat | Necrosis | Focal, Marked |
| Note: NECROSIS | TGLs = 1-13 | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 2-6 | | |
| Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 153 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 734
DOSE: .025G/KG72HM **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|---------------------|-------------------|-----------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Islets, Pancreatic | Pancreas | Parathyroid Gland | Seminal Vesicle |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|---|---------------------------|------------------|-----------------------|
| Adrenal Gland | Medulla | Hyperplasia | Focal, Minimal |
| Heart | | Cardiomyopathy | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 6-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| Note: NEPHROPATHY TGLs = 4-4,4-4.1 | | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Mild |
| Lung | | Inflammation | Granulomatous, Mild |
| Lymph Node | Mandibular | Hyperplasia | Plasma Cell, Marked |
| | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 8-8 | | | |
| Note: PIGMENT TGLs = 7-9 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 5-7 | | | |
| Preputial Gland | Duct | Cyst | |
| Note: CYST TGLs = 1-9 | | | |
| Prostate | | Inflammation | Suppurative, Mild |
| Spleen | | Sarcoma | |
| Note: [SARCOMA] TGLs = 3-3 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 154

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------|-------------------------|-----------------------|
| Adrenal Gland - Medulla | Brain | Epididymis | Esophagus |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Prostate |
| Salivary Glands | Seminal Vesicle | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|------------------|---------------------------|---------------------------|-----------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Minimal |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT | TGLs = 4-9 | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mediastinal | Congestion | Moderate |
| | Pancreatic | Cyst | |
| | Mediastinal | Pigmentation | Mild |
| | Mesenteric | Pigmentation | Minimal |
| Note: CONGESTION | TGLs = 1-1 | | |
| Note: CYST | TGLs = 3-8 | | |
| Pancreas | Acinus | Adenoma | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 7-7 | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 2-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 155

TRT#: 3

SEX: Male

DAY ON TEST: 512

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|---|---------------------------|------------------------------|---------------------------------|
| Intestine Small Note: PIGMENT TGLs = 3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Moderate Hemosiderin, Marked |
| Liver | Bile Duct | Fatty Change Hyperplasia | Mild Mild |
| Lung [Congestion TGLS = 2] | | Congestion | Moderate |
| Lymph Node | Mesenteric Pancreatic | Pigmentation Pigmentation | Mild Marked |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| Testes Note: ADENOMA TGLs = 1 | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 156

TRT#: 3

SEX: Male

DAY ON TEST: 561

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|---------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Islets, Pancreatic | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Nose | Pancreas | Parathyroid Gland |
| Pituitary Gland | Preputial Gland | Prostate | Salivary Glands |
| Seminal Vesicle | Spleen | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|-------------------------------|---------------------------|-----------------|-----------------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 6-7 | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Congestion | Marked |
| | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| Note: CONGESTION | TGLs = 8-3 | | |
| Lung | | Congestion | Marked |
| [Congestion TGLS = 2-1,2-2] | | | |
| Skin | | Keratoacanthoma | |
| Note: KERATOACANTHMA | TGLs = 1-13 | | |
| Stomach | Forestomach | Pigmentation | Minimal |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 4-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 157

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Islets, Pancreatic
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Brain
Lung
Prostate
Stomach - Glandular

Epididymis
Lymph Node - Mandibular
Seminal Vesicle
Thyroid Gland

Esophagus
Parathyroid Gland
Spleen
Trachea

OBSERVATIONS

Adrenal Gland
Heart
Intestine Small
 Note: PIGMENT TGLs = 2-9
Kidney

Liver
Lymph Node

 Note: PIGMENT TGLs = 5-8
 Note: PIGMENT TGLs = 3-9
Pancreas
Testes
 Note: ADENOMA TGLs = 1-6

Cortex

Duodenum, Lamina Propria

Renal Tubule
Bile Duct
Mesenteric
Pancreatic

Acinus
Bilateral, Interstit Cell

Vacuolization Cytoplasmic
Cardiomyopathy
Pigmentation

Nephropathy
Pigmentation
Hyperplasia
Pigmentation
Pigmentation

Hyperplasia
Adenoma

Minimal
Minimal
Marked

Marked
Hemosiderin, Moderate
Minimal
Mild
Marked

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 158

TRT#: 3

SEX: Male

DAY ON TEST: 433

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Small - Jejunum
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

Bone
Intestine Large - Cecum
Islets, Pancreatic
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Lymph Node - Mandibular
Pituitary Gland
Skin
Thymus

Epididymis
Intestine Large - Rectum
Nose
Preputial Gland
Spleen
Thyroid Gland

MISSING

Bone Marrow
Mammary Gland

AUTO PRECLUDES DIAG.

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland
Heart
Intestine Small
Kidney
 Note: NEPHROPATHY TGLs = 7
Liver
 Note: FATTY CHANGE TGLs = 8
Lung
 Note: CONGESTION TGLs = 3
Lymph Node
 Note: PIGMENT TGLs = 4
Prostate
Testes

Cortex
Duodenum, Lamina Propria
Mesenteric
Bilateral, Interstit Cell

Hyperplasia
Cardiomyopathy
Pigmentation
Nephropathy
Fatty Change
Congestion
Pigmentation
Inflammation
Adenoma

Focal, Moderate
Moderate
Moderate
Mild
Mild
Moderate
Marked
Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 159

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------|-------------------------|---------------------|--------------------|
| Brain | Epididymis | Esophagus | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Pancreas | Pituitary Gland |
| Prostate | Seminal Vesicle | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|----------------------------------|---------------------------|---------------------------|---------------------|
| Adrenal Gland | Medulla | Hyperplasia | Focal, Mild |
| | Cortex | Vacuolization Cytoplasmic | Mild |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 9-9 | | | |
| Kidney | Renal Tubule | Hyperplasia | Focal, Mild |
| | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Note: NEPHROPATHY TGLs = 10-4 | | | |
| Liver | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Note: PIGMENT TGLs = 8-9 | | | |
| Spleen | | Hyperplasia | Nodular, Marked |
| Note: [HYPERPLASIA] TGLs = 4-3 | | | |
| Stomach | Forestomach | Acanthosis | Mild |
| Note: ACANTHOSIS TGLs = 12-7 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 6-6,7-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 160

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------------|-------------------------|-----------------|
| Adrenal Gland - Medulla | Brain | Epididymis | Esophagus |
| Heart | Islets, Pancreatic | Lymph Node - Mandibular | Pancreas |
| Parathyroid Gland | Pituitary Gland | Prostate | Seminal Vesicle |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|-------------------------------|---------------------------|---------------------------|-----------------------|
| Adrenal Gland | Cortex | Hyperplasia | Focal, Mild |
| | Cortex | Vacuolization Cytoplasmic | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 4-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | | Congestion | Moderate |
| [Congestion TGLS = 6-3] | | | |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 1-1,1-2] | | | |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 161

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Brain
Islets, Pancreatic
Prostate
Stomach - Glandular

Epididymis
Lung
Seminal Vesicle
Thyroid Gland

Esophagus
Lymph Node - Mandibular
Spleen
Trachea

OBSERVATIONS

Adrenal Gland
Note: PHEOCHROM MAL TGLs = 5-7

Medulla
Duodenum, Lamina Propria

Pheochromocytoma Malignant

Intestine Small
Kidney

Renal Tubule

Pigmentation
Nephropathy
Pigmentation
Hemosiderin, Moderate

Liver

Bile Duct

Basophilic Focus

Minimal

Lymph Node

Mesenteric

Pigmentation

Marked

Pancreas

Acinus

Atrophy

Moderate

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 6-7

Skin

Keratoacanthoma

Multiple

Note: KERATOACANTHMA TGLs = 1-10

Note: KERATOACANTHMA TGLs = 2-10

Testes

Interstit Cell

Adenoma

Note: ADENOMA TGLs = 4-6,7-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 162

TRT#: 3

SEX: Male

DAY ON TEST: 489

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-----------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Rectum | Islets, Pancreatic | Lymph Node - Mandibular |
| Nose | Pancreas | Parathyroid Gland | Pituitary Gland |
| Preputial Gland | Prostate | Salivary Glands | Seminal Vesicle |
| Skin | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|-------------------------------|---------------------------|-------------------|-----------------------|
| Intestine Large | Colon | Parasite Metazoan | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 5-7 | | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Fatty Change | Minimal |
| | | Hyperplasia | Minimal |
| Lung | | Congestion | Marked |
| [Congestion TGLS = 1-1,1-2] | | | |
| Lymph Node | Mediastinal | Congestion | Moderate |
| | Mesenteric | Pigmentation | Marked |
| Note: CONGESTION TGLs = 2-1 | | | |
| [Congestion TGLS = 3-8] | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 163

TRT#: 3

SEX: Male

DAY ON TEST: 475

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--------------------|---------------------------|----------------|--------------------|
| Heart | | Cardiomyopathy | Moderate |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 5-7 | | |
| Kidney | | Nephropathy | Moderate |
| Note: NEPHROPATHY | TGLs = 7-4 | | |
| Liver | Bile Duct | Fatty Change | Mild |
| Note: FATTY CHANGE | TGLs = 8-3 | Hyperplasia | Mild |
| Lung | | Congestion | Moderate |
| Note: CONGESTION | TGLs = 3-1,3-2 | | |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 10-9 | | |
| Note: PIGMENT | TGLs = 4-8 | | |
| Note: HYPERPLASIA | TGLs = 2-2 | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 164

TRT#: 3

SEX: Male

DAY ON TEST: 360

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | 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 | Parathyroid Gland |
|---------------|-------------------|

OBSERVATIONS

| | | | |
|---|--------------------------|--------------|---------------|
| Intestine Small Note: PIGMENT TGLs = 3 | Duodenum, Lamina Propria | Pigmentation | Mild |
| Kidney | | Nephropathy | Mild |
| Liver | Centrilobular | Degeneration | Moderate |
| | | Fatty Change | Moderate |
| | Bile Duct | Hyperplasia | Mild |
| Note: FATTY CHANGE TGLs = 6 | | | |
| Lung | | Congestion | Moderate |
| | Perivascular | Inflammation | Chronic, Mild |
| [Congestion TGLS = 1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 165

TRT#: 3

SEX: Male

DAY ON TEST: 327

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Mammary Gland |
| Nose | Pancreas | Pituitary Gland | Preputial Gland |
| Salivary Glands | Seminal Vesicle | Skin | Spinal Cord |
| Spleen | Stomach - Glandular | Testes | Thymus |
| Thyroid Gland | Trachea | | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|-----------------|--------------------------|----------------|----------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 7 | | |
| Kidney | | Nephropathy | Mild |
| Liver | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 6 | | |
| Prostate | | Inflammation | Subacute, Mild |
| Skeletal Muscle | Abdominal | Sarcoma | |
| Note: SARCOMA | TGLs = 2 | | |
| Stomach | Forestomach | Pigmentation | Minimal |
| Urinary Bladder | Mucosa | Hyperplasia | Focal, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 167

TRT#: 3

SEX: Male

DAY ON TEST: 653

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-----------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Epididymis |
| Esophagus | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Pancreas | Parathyroid Gland | Seminal Vesicle | Stomach - Forestomach |
| Stomach - Glandular | Testes | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-------------------|--------------------------|----------------|-----------------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT | TGLs = 7-9 | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Fatty Change | Minimal |
| | | Hyperplasia | Moderate |
| | | Inflammation | Acute, Focal, Mild |
| Lymph Node | Mesenteric | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 11-8 | | |
| Note: PIGMENT | TGLs = 6-9 | | |
| Mammary Gland | | Hyperplasia | Moderate |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] | TGLs = 9-7 | | |
| Preputial Gland | | Adenoma | |
| Note: [ADENOMA] | TGLs = 2-9 | | |
| Prostate | | Inflammation | Suppurative, Mild |
| Spleen | Endothelium | Hyperplasia | Marked |
| Note: HYPERPLASIA | TGLs = 5-3 | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 169

TRT#: 3

SEX: Male

DAY ON TEST: 667

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|---------------------|-------------------------|
| Adrenal Gland - Medulla | Brain | Epididymis | Esophagus |
| Heart | Intestine Large - Colon | Islets, Pancreatic | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Parathyroid Gland | Prostate | Salivary Glands |
| Seminal Vesicle | Spleen | Stomach - Glandular | Thyroid Gland |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|-------------------------------|---------------------------|--------------|-----------------------|
| Adrenal Gland | Cortex | Hypertrophy | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | Renal Tubule | Hyperplasia | Focal, Mild |
| | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Note: NEPHROPATHY TGLs = 5-4 | | | |
| Liver | Bile Duct | Hyperplasia | Minimal |
| Lung | | Congestion | Marked |
| [Congestion TGLs = 4-1,4-2] | | | |
| Lymph Node | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 9-8 | | | |
| Pancreas | Acinus | Hyperplasia | Focal, Marked |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| Stomach | Forestomach | Ulcer | Marked |
| Note: [ULCER] TGLs = 7-7 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 2-6 | | | |
| Trachea | Mucosa | Pigmentation | Marked |
| Note: PIGMENT TGLs = 3-7 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 170

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------|---------------------|
| Adrenal Gland - Cortex | Brain | Epididymis | Esophagus |
| Islets, Pancreatic | Lymph Node - Mandibular | Parathyroid Gland | Prostate |
| Seminal Vesicle | Skin | Spleen | Stomach - Glandular |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|-------------------------------|---------------------------|------------------|-----------------------|
| Adrenal Gland | Medulla | Hyperplasia | Focal, Moderate |
| Heart | | Cardiomyopathy | Moderate |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 9-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | Bile Duct | Congestion | Moderate |
| Note: CONGESTION TGLs = 11-3 | | Hyperplasia | Mild |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 4-1,4-2] | | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Note: PIGMENT TGLs = 8-9 | | | |
| Pancreas | Acinus | Hyperplasia | Moderate |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| Stomach | Forestomach | Pigmentation | Mild |
| | Forestomach | Ulcer | Marked |
| Note: ULCER TGLs = 12-7 | | | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 7-6 | | | |
| Thyroid Gland | C Cell | Carcinoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 171

TRT#: 3

SEX: Male

DAY ON TEST: 575

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|---------------------------|--------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lymph Node - Mandibular | Parathyroid Gland | Prostate | Salivary Glands |
| Seminal Vesicle | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|--------------------------|-------------------|-------------------------------------|
| Bone Marrow | | Sarcoma | Metastatic (Uncertain Primary Site) |
| Epididymis | Serosa | Sarcoma | Metastatic (Uncertain Primary Site) |
| Intestine Large | Cecum, Colon | Parasite Metazoan | |
| | Rectum, Serosa | Sarcoma | Metastatic (Uncertain Primary Site) |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 8-7 | | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Marked |
| | | Sarcoma | Metastatic (Uncertain Primary Site) |
| Liver | | Sarcoma | Metastatic (Uncertain Primary Site) |
| [Sarcoma TGLS = 10-3] | | | |
| Lung | | Sarcoma | Metastatic (Uncertain Primary Site) |
| [Sarcoma TGLS = 3-1,3-2] | | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Note: PIGMENT TGLs = 7-8 | | | |
| Nose | | Sarcoma | Metastatic (Uncertain Primary Site) |
| Pancreas | | Sarcoma | Metastatic (Uncertain Primary Site) |
| Pituitary Gland | Pars Distalis | Cyst | |
| Note: CYST TGLs = 11-8 | | | |
| Preputial Gland | | Sarcoma | Metastatic (Uncertain Primary Site) |
| Skeletal Muscle | Hindlimb | Sarcoma | Metastatic (Uncertain Primary Site) |
| Note: SARCOMA TGLs = 2-13,2-13.1,2-13.2 | | | |
| Skin | Subcut Tiss | Sarcoma | Metastatic (Uncertain Primary Site) |
| Spleen | | Sarcoma | Metastatic (Uncertain Primary Site) |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 171

TRT#: 3
DOSE: .025G/KG72HM

SEX: Male
DISP: Moribund

DAY ON TEST: 575
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes
Note: ADENOMA TGLs = 6-6

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 172

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|-------------------------|-------------------|--------------------|
| Brain | Epididymis | Esophagus | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Parathyroid Gland | Pituitary Gland |
| Prostate | Salivary Glands | Seminal Vesicle | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--------------------------------|---------------------------|---------------------------|-----------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| | Cortex | Vacuolization Cytoplasmic | Minimal |
| Note: PHEOCHROM BGN TGLs = 4-7 | | | |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 3-9 | | | |
| Kidney | Renal Tubule | Hyperplasia | Focal, Mild |
| | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 5-8 | | | |
| Note: PIGMENT TGLs = 6-9 | | | |
| Pancreas | Acinus | Adenoma | |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 1-6 | | | |
| Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 174 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 725
DOSE: .025G/KG72HM **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------|-----------------|--------------------|-----------------------|
| Epididymis | Esophagus | Islets, Pancreatic | Parathyroid Gland |
| Prostate | Salivary Glands | Seminal Vesicle | Stomach - Forestomach |
| Thyroid Gland | Trachea | | |

OBSERVATIONS

| | | | |
|---|--------------------------|---------------------------|---------------------|
| Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| | Cortex | Vacuolization Cytoplasmic | Mild |
| Note: LEUKEMIA MONUC | TGLs = 11-7 | | |
| Note: LEUKEMIA MONUC | TGLs = 11-7 | | |
| Brain | | Leukemia Mononuclear | |
| Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 10-9 | | |
| Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 3-1,3-2] | | | |
| Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | Mesenteric | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 8-8 | | |
| Note: LEUKEMIA MONUC | TGLs = 2-8 | | |
| Note: LEUKEMIA MONUC | TGLs = 8-8 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 174

TRT#: 3

SEX: Male

DAY ON TEST: 725

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|----------------------|---------------------------|----------------------|
| Note: LEUKEMIA MONUC | TGLs = 9-9 | |
| Pancreas | | Leukemia Mononuclear |
| Pituitary Gland | | Leukemia Mononuclear |
| Note: LEUKEMIA MONUC | TGLs = 13-7 | |
| Spleen | | Leukemia Mononuclear |
| Note: LEUKEMIA MONUC | TGLs = 7-3.1 | |
| Stomach | Glandular | Leukemia Mononuclear |
| Note: LEUKEMIA MONUC | TGLs = 14-7,14-7.1 | |
| Testes | Bilateral, Interstit Cell | Adenoma |
| Note: ADENOMA | TGLs = 4-6,5-6 | |
| Thymus | | Leukemia Mononuclear |
| Urinary Bladder | | Leukemia Mononuclear |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 175

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: .025G/KG72HM

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------|-------------------------|-----------------------|
| Adrenal Gland - Medulla | Brain | Epididymis | Esophagus |
| Heart | Islets, Pancreatic | Lymph Node - Mandibular | Parathyroid Gland |
| Prostate | Seminal Vesicle | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|----------------------------------|---------------------------|------------------|-----------------------|
| Adrenal Gland | Cortex | Metaplasia | Osseous, Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 7-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 1-1,1-2] | | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 8-9 | | | |
| Note: PIGMENT TGLs = 11-8 | | | |
| Pancreas | Acinus | Adenoma | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |
| Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 2-6,3-6,4-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 176

TRT#: 3

SEX: Male

DAY ON TEST: 492

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular | Nose | Pancreas | Parathyroid Gland |
| Preputial Gland | Salivary Glands | Seminal Vesicle | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|-------------------------|--------------------------|----------------|-----------------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 6 | | |
| Islets, Pancreatic | | Hyperplasia | Moderate |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Fatty Change | Moderate |
| | | Hyperplasia | Minimal |
| Note: FATTY CHANGE | TGLs = 8 | | |
| Lung | | Congestion | Mild |
| [Congestion TGLS = 1] | | | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Note: PIGMENT | TGLs = 4 | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| Prostate | | Inflammation | Suppurative, Mild |
| Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 178

TRT#: 3

SEX: Male

DAY ON TEST: 506

DOSE: .025G/KG72HM

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Epididymis | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | 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 |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|----------------------------|--------------------------|--------------|-------------------|
| Adrenal Gland | Cortex | Hypertrophy | Focal, Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 7,8 | | | |
| Kidney | Transit Epithe | Carcinoma | |
| | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Mild |
| [Pigmentation TGLS = 5] | | | |
| Liver | | Fatty Change | Mild |
| [Fatty Change TGLS = 11] | | | |
| Preputial Gland | | Inflammation | Chronic, Minimal |
| Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 179

TRT#: 3

SEX: Male

DAY ON TEST: 462

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|---|--------------------------|------------------------------|-------------------------------|
| Intestine Small Note: PIGMENT TGLs = 4 | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Mild Hemosiderin, Moderate |
| Liver | Bile Duct | Fatty Change Hyperplasia | Mild Mild |
| Lymph Node Note: PIGMENT TGLs = 5 | Mesenteric Pancreatic | Pigmentation Pigmentation | Marked Marked |
| Nose | Nasolacrim Dct | Inflammation | Chronic, Mild |
| Pancreas | Artery | Inflammation | Chronic, Marked |
| Preputial Gland | | Inflammation | Chronic, Mild |
| Stomach | Forestomach | Ulcer | Mild |
| Testes Note: ADENOMA TGLs = 3 | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 180

TRT#: 3

SEX: Male

DAY ON TEST: 512

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Epididymis | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node - Mandibular | Nose |
| Pancreas | Parathyroid Gland | Prostate | Salivary Glands |
| Seminal Vesicle | Skin | Spleen | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Mammary Gland

OBSERVATIONS

| | | | |
|--|---|--|-----------------------------------|
| Intestine Small Note: PIGMENT TGLs = 6 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Moderate Hemosiderin, Moderate |
| Liver Note: FATTY CHANGE TGLs = 9 | Bile Duct | Fatty Change Hyperplasia | Mild Minimal |
| Lung [Congestion TGLS = 3] | | Congestion | Marked |
| Lymph Node [Congestion TGLS = 2] [Pigmentation TGLS = 4] | Mediastinal Mesenteric Pancreatic | Congestion Pigmentation Pigmentation | Marked Marked Marked |
| Pituitary Gland Note: ADENOMA TGLs = 10 | Pars Distalis | Adenoma | |
| Preputial Gland | | Inflammation | Chronic, Mild |
| Stomach | Forestomach Forestomach | Acanthosis Pigmentation | Mild Mild |
| Testes | Bilateral, Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 180

TRT#: 3

SEX: Male

DAY ON TEST: 512

DOSE: .025G/KG72HM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|---------------------|---------------------------|-----------------------|-------------------------|
| ANIMAL ID: 1 | TRT#: 4 | SEX: Female | DAY ON TEST: 717 |
| | DOSE: VEHICLE 72VF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|-----------------------|----------------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Intestine Small - Duodenum |
| Islets, Pancreatic | Lymph Node - Mandibular | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|---|---------------|----------------------|----------|
| Adrenal Gland | Cortex | Adenoma | |
| | Cortex | Degeneration | Moderate |
| | Cortex | Leukemia Mononuclear | |
| Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED. | | | |
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| Liver | | Fatty Change | Marked |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 13-3 | | | |
| Lung | | Leukemia Mononuclear | |
| Lymph Node | Mesenteric | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 9-9 | | | |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 2-10,4-10 | | | |
| Pituitary Gland | Pars Distalis | Hemorrhage | Mild |
| | | Leukemia Mononuclear | |
| Note: [HEMORRHAGE] TGLs = 14-7 | | | |
| Spleen | | Leukemia Mononuclear | |
| | | Thrombosis | |
| Note: LEUKEMIA MONUC TGLs = 7-3.1 | | | |
| Note: THROMBUS TGLs = 8-3.1 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|---------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 2 | TRT#: 4 | SEX: Female | DAY ON TEST: 735 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|---------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|---------------------------------------|---------------|----------------------------|----------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Mild |
| Liver | | Hepatodiaphragmatic Nodule | |
| Note: ANOM HEPAT LOB TGLs = 4-3 | | | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Mammary Gland | | Fibroadenoma | Multiple |
| Note: FIBROADENOMA TGLs = 2-9 | | | |
| Note: FIBROADENOMA TGLs = 1-10,1-10.1 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 3-7 | | | |
| Thyroid Gland | C Cell | Hyperplasia | Moderate |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|---------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 4 | TRT#: 4 | SEX: Female | DAY ON TEST: 735 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-----------------------|---------------------|-------------------------|
| Adrenal Gland - Cortex | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Ovary | Pancreas | Parathyroid Gland |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

| | | | |
|-------------------------------|-----------|----------------------------|----------|
| Kidney | | Nephropathy | Minimal |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Granuloma | Moderate |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Moderate |
| Note: GRANULOMA TGLs = 3 | | | |
| Note: ANOM HEPAT LOB TGLs = 2 | | | |
| Pituitary Gland | | Cyst | |
| Note: CYST TGLs = 1-7 | | | |
| Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|---------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 5 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|----------------------------|--------------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Intestine Small - Duodenum | Islets, Pancreatic | Lung |
| Lymph Node - Mesenteric | Ovary | Pancreas | Pituitary Gland |
| Spleen | Stomach - Forestomach | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

| | |
|-------------------|---------------------|
| Parathyroid Gland | Stomach - Glandular |
|-------------------|---------------------|

OBSERVATIONS

| | | | |
|------------|--------------|------------------|-----------------------|
| Kidney | | Nephropathy | Mild |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mandibular | Congestion | Moderate |

Note: CONGESTION TGLs = 3-9

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|---------------------|---------------------------|--------------------|-------------------------|
| ANIMAL ID: 6 | TRT#: 4 | SEX: Female | DAY ON TEST: 704 |
| | DOSE: VEHICLE 72VF | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|----------------------------|---------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|-------------------------------|---------------|------------------|----------|
| Kidney | | Congestion | Moderate |
| Note: CONGESTION | TGLs = 4-4 | | |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Mild |
| | Centrilobular | Necrosis | Moderate |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 2-1,2-2] | | | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA | TGLs = 1-10 | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|---------------------|---------------------------|--------------------|-------------------------|
| ANIMAL ID: 8 | TRT#: 4 | SEX: Female | DAY ON TEST: 421 |
| | DOSE: VEHICLE 72VF | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | 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 | Kidney |
| Lung | Lymph Node - Mandibular | Lymph Node - Mesenteric | Nose |
| Ovary | Oviduct | Pancreas | Pituitary Gland |
| Salivary Glands | Skin | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thymus | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | |
|---------------|--------------|----------|
| Liver | Fatty Change | Moderate |
| Mammary Gland | Carcinoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|---------------------|---|---|--|
| ANIMAL ID: 9 | TRT#: 4 DOSE: VEHICLE 72VF | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 735 HISTO: |
|---------------------|---|---|--|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|----------------------------|---------------------|---------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Intestine Small - Duodenum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node - Mandibular | Ovary | Pancreas |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|--------------------------------|---------------|----------------------|---------|
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Marked |
| Note: FIBROADENOMA TGLs = 1-10 | | | |
| Note: HYPERPLASIA TGLs = 2-11 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 3-7 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 10

TRT#: 4

SEX: Female

DAY ON TEST: 627

DOSE: VEHICLE 72VF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | 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 | Lymph Node - Mandibular | Lymph Node - Mesenteric |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Salivary Glands | Skin | Spleen | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|--------------------------------|---------------|------------------|----------------------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | Cortex | Cyst | |
| | | Nephropathy | Marked |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Moderate |
| Lung | | Inflammation | Chronic, Focal, Mild |
| Mammary Gland | | Hyperplasia | Cystic, Moderate |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 2-8.1 | | | |
| Stomach | Forestomach | Ulcer | Mild |
| Note: [ULCER] TGLs = 4-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 11 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------------|-----------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Intestine Small - Duodenum | Lung | Lymph Node - Mandibular | Ovary |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Uterus |

OBSERVATIONS

| | | | |
|--------------------------------|---------------|------------------|---------------------|
| Heart | | Cardiomyopathy | Mild |
| Kidney | | Nephropathy | Moderate |
| Liver | | Basophilic Focus | |
| | | Inflammation | Granulomatous, Mild |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| | Pancreatic | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 4 | | | |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 1-10 | | | |
| Pancreas | Acinus | Hyperplasia | Focal, Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 3-7 | | | |
| Urinary Bladder | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|-----------------------|-------------------------|
| ANIMAL ID: 12 | TRT#: 4 | SEX: Female | DAY ON TEST: 680 |
| | DOSE: VEHICLE 72VF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------|-----------|-------------------------|
| Adrenal Gland - Cortex | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Pancreas | Parathyroid Gland | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

| | |
|-------------------------|-------|
| Adrenal Gland - Medulla | Ovary |
|-------------------------|-------|

OBSERVATIONS

| | | | |
|--------------------------------|---------------|---------------|---------------------|
| Kidney | | Nephropathy | Mild |
| Liver | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Granulomatous, Mild |
| Note: FATTY CHANGE TGLs = 5-3 | | | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Mammary Gland | | Fibroadenoma | Multiple |
| | | Hyperplasia | Cystic, Marked |
| Note: FIBROADENOMA TGLs = 3-9 | | | |
| Note: FIBROADENOMA TGLs = 1-10 | | | |
| Note: HYPERPLASIA TGLs = 2-11 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 7-7 | | | |
| Uterus | | Polyp Stromal | |
| Note: POLYP STROMAL TGLs = 8-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 13

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: VEHICLE 72VF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Brain

Esophagus

Heart

Intestine Small - Duodenum

Islets, Pancreatic

Ovary

Pancreas

Parathyroid Gland

Spleen

Stomach - Forestomach

Thyroid Gland

Trachea

Urinary Bladder

MISSING

Lymph Node - Mandibular

Stomach - Glandular

OBSERVATIONS

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Fatty Change

Minimal

Lung

Bile Duct

Hyperplasia

Minimal

Adenomatosis

Mild

Congestion

Mild

[Adenomatosis TGLS = 2-2]

Lymph Node

Mesenteric

Pigmentation

Moderate

Note: PIGMENT TGLs = 4-9

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-10

Pituitary Gland

Pars Distalis

Adenoma

Note: [ADENOMA] TGLs = 5-7

Uterus

Polyp Stromal

Vagina

Inflammation

Suppurative, Mild

Note: INFLAMMATION TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|--------------------|-------------------------|
| ANIMAL ID: 14 | TRT#: 4 | SEX: Female | DAY ON TEST: 668 |
| | DOSE: VEHICLE 72VF | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-----------------------|---------------------|-------------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Kidney | Lymph Node - Mandibular |
| Ovary | Pancreas | Pituitary Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|---------------|---|-------------------------------|----------|
| Adrenal Gland | Cortex | Degeneration | Moderate |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| | Bile Duct | Hepatodiaphragmatic Nodule | |
| | [Hepatodiaphragmatic Nodule TGLS = 3-3] | Hyperplasia | Minimal |
| Lung | | Congestion | Moderate |
| | | [Congestion TGLS = 1-1,1-2] | |
| Lymph Node | Mesenteric | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|-----------------------|-------------------------|
| ANIMAL ID: 15 | TRT#: 4 | SEX: Female | DAY ON TEST: 711 |
| | DOSE: VEHICLE 72VF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-----------------------|---------------------|-------------------------|
| Adrenal Gland - Cortex | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Ovary | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|---------------------------------|---------------|----------------------|-------------------|
| Adrenal Gland | Medulla | Hyperplasia | Mild |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| [Hyperplasia TGLS = 5-3] | | | |
| Lymph Node | Mesenteric | Pigmentation | Hemosiderin, Mild |
| Pancreas | Acinus | Atrophy | Mild |
| Pituitary Gland | Pars Distalis | Hemorrhage | Moderate |
| Note: HEMORRHAGE TGLs = 6-7 | | | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 3-3 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 17

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: VEHICLE 72VF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------|-----------------|-------------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Lacrimal Gland | Lymph Node - Mandibular |
| Ovary | Pancreas | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Trachea | Urinary Bladder | Zymbal's Gland |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|---|---------------|------------------------------|----------|
| Adrenal Gland | Cortex | Degeneration | Mild |
| Clitoral Gland | | Adenoma | |
| Note: [ADENOMA] TGLs = 1-10 | | | |
| Kidney | | Nephropathy | Minimal |
| Liver | | Basophilic Focus | |
| | | Mixed Cell Focus | |
| Lung | | Alveolar/Bronchiolar Adenoma | |
| [Alveolar/Bronchiolar Adenoma TGLS = 5-1] | | | |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Mammary Gland | | Fibroadenoma | Multiple |
| Note: FIBROADENOMA TGLs = 2-11 | | | |
| Note: FIBROADENOMA TGLs = 1-10 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 4-7 | | | |
| Thyroid Gland | C Cell | Hyperplasia | Minimal |
| Uterus | | Polyp Stromal | |
| Note: POLYP STROMAL TGLs = 3-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 18

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: VEHICLE 72VF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------|----------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Ear |
| Esophagus | Eye | Harderian Gland | Intestine Small - Duodenum |
| Islets, Pancreatic | Ovary | Parathyroid Gland | Stomach - Forestomach |
| Stomach - Glandular | Trachea | Urinary Bladder | Uterus |
| Zymbal's Gland | | | |

OBSERVATIONS

| | | | |
|---------------------------------|---------------|----------------------|-------------------|
| Heart | | Leukemia Mononuclear | |
| Kidney | | Nephropathy | Minimal |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 3-3 | | | |
| Lung | | Leukemia Mononuclear | |
| Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Mesenteric | Pigmentation | Hemosiderin, Mild |
| Pancreas | Acinus | Atrophy | Minimal |
| Pituitary Gland | Pars Distalis | Carcinoma | |
| Note: CARCINOMA TGLs = 4-7 | | | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 2-3 | | | |
| Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|--------------------|-------------------------|
| ANIMAL ID: 20 | TRT#: 4 | SEX: Female | DAY ON TEST: 193 |
| | DOSE: VEHICLE 72VF | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | 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 | Kidney | Lung |
| Lymph Node - Mandibular | Lymph Node - Mesenteric | Mammary Gland | Nose |
| Ovary | Pituitary Gland | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|---------------------------------|---------------|----------------------------------|-------------------|
| Adrenal Gland | Cortex | Degeneration | Mild |
| Liver | Centrilobular | Inflammation | Acute, Moderate |
| Mesentery | | Hemangiosarcoma | |
| Note: HEMANGIOSARC TGLs = 2-13 | | | |
| Pancreas | Serosa | Neovascularization | Diffuse, Moderate |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Note: HEMA CELL PROL TGLs = 4-3 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 21 | TRT#: 4 | SEX: Female | DAY ON TEST: 735 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|---------------------|----------------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Intestine Small - Duodenum |
| Islets, Pancreatic | Lymph Node - Mandibular | Ovary | Pancreas |
| Parathyroid Gland | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|-----------------|----------------|----------------------------------|-------------|
| Adrenal Gland | Cortex | Hyperplasia | Mild |
| Clitoral Gland | | Carcinoma | |
| Note: CARCINOMA | TGLs = 1-10 | | |
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Minimal |
| Liver | | Basophilic Focus | |
| Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Mammary Gland | | Hyperplasia | Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Spleen | | Hematopoietic Cell Proliferation | Mild |
| Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 22 | TRT#: 4 | SEX: Female | DAY ON TEST: 735 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------|-----------|-------------------|----------------------------|
| Brain | Esophagus | Heart | Intestine Small - Duodenum |
| Islets, Pancreatic | Kidney | Lung | Lymph Node - Mandibular |
| Ovary | Pancreas | Parathyroid Gland | Stomach - Forestomach |
| Stomach - Glandular | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|----------------------|------------------|----------------------|----------|
| Adrenal Gland | Cortex | Degeneration | Mild |
| | Medulla | Hyperplasia | Mild |
| Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Pituitary Gland | Pars Distalis | Angiectasis | Moderate |
| | Pars Distalis | Cyst | |
| Skin | Subcut Tiss | Fibrosarcoma | |
| Note: FIBROSARC | TGLs = 1-10,1-11 | | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 2-3 | | |
| Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 23

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: VEHICLE 72VF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Brain

Esophagus

Intestine Small - Duodenum

Islets, Pancreatic

Lung

Lymph Node - Mandibular

Pancreas

Parathyroid Gland

Spleen

Stomach - Forestomach

Stomach - Glandular

Trachea

Urinary Bladder

OBSERVATIONS

Heart

Cardiomyopathy

Minimal

Kidney

Cortex

Cyst

Nephropathy

Minimal

Note: CYST TGLs = 7-4

Liver

Basophilic Focus

Lymph Node

Mesenteric

Pigmentation

Mild

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-10

Mesentery

Fat

Necrosis

Focal, Moderate

Note: NECROSIS TGLs = 3-9

Ovary

Cyst

Note: CYST TGLs = 4-6.1

Pituitary Gland

Pars Distalis

Adenoma

Skin

Subcut Tiss

Fibrosarcoma

Note: [FIBROSARC] TGLs = 2-11

Thyroid Gland

C Cell

Hyperplasia

Moderate

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 5-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 24 | TRT#: 4 | SEX: Female | DAY ON TEST: 735 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|---------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Esophagus | Heart | Intestine Small - Duodenum |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|--------------------------------|------------------------|--------------|-----------------|
| Adrenal Gland | Medulla | Hyperplasia | Mild |
| Brain | Cerebrum, Perivascular | Inflammation | Mild |
| Kidney | | Nephropathy | Minimal |
| Liver | Bile Duct | Hyperplasia | Minimal |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 1-10 | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| Note: NECROSIS TGLs = 2-9 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Cyst | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|-----------------------|-------------------------|
| ANIMAL ID: 25 | TRT#: 4 | SEX: Female | DAY ON TEST: 604 |
| | DOSE: VEHICLE 72VF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex | 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 | Lymph Node - Mandibular |
| Mammary Gland | Nose | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Skin | Spleen |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Thymus

OBSERVATIONS

| | | | |
|------------------------------|---------------|----------------------------|--------------------------|
| Adrenal Gland | Medulla | Hyperplasia | Mild |
| Kidney | Renal Tubule | Hyperplasia Nephropathy | Focal, Minimal Marked |
| Note: NEPHROPATHY TGLs = 5-4 | | | |
| Lung | | Adenomatosis | Mild |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Note: PIGMENT TGLs = 3-9 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |
| Stomach | Forestomach | Ulcer | Mild |
| Note: [ULCER] TGLs = 6-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 26

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: VEHICLE 72VF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Islets, Pancreatic
Lymph Node - Mesenteric
Pituitary Gland
Thyroid Gland

Brain
Kidney
Ovary
Spleen
Trachea

Esophagus
Lung
Pancreas
Stomach - Forestomach
Urinary Bladder

Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular

OBSERVATIONS

Adrenal Gland
Heart
Liver

Cortex

Degeneration
Cardiomyopathy
Basophilic Focus
Clear Cell Focus
Polyp Stromal

Moderate
Mild

Uterus

Note: POLYP STROMAL TGLs = 1-6,1-6.1

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|-----------------------|-------------------------|
| ANIMAL ID: 27 | TRT#: 4 | SEX: Female | DAY ON TEST: 709 |
| | DOSE: VEHICLE 72VF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Ovary | Pancreas | Parathyroid Gland | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|--------------------|----------------|------------------|----------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA | TGLs = 1-9,3-9 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] | TGLs = 5-7 | | |
| Thyroid Gland | C Cell | Hyperplasia | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 29 | TRT#: 4 | SEX: Female | DAY ON TEST: 735 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------|-------------------|-------------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Ovary | Parathyroid Gland | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|---------------------------------|---------------|----------------------------|---------------------|
| Adrenal Gland | Cortex | Hyperplasia | Mild |
| Kidney | | Nephropathy | Minimal |
| Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Granulomatous, Mild |
| [Basophilic Focus TGLS = 2-3] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| Note: NECROSIS TGLs = 1-9 | | | |
| Pancreas | Acinus | Atrophy | Marked |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 3-7 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 30

TRT#: 4

SEX: Female

DAY ON TEST: 536

DOSE: VEHICLE 72VF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Ear
Intestine Large - Rectum
Islets, Pancreatic
Oviduct
Spleen
Thyroid Gland

Bone
Heart
Intestine Small - Duodenum
Lung
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

MISSING

Esophagus

OBSERVATIONS

Brain
 Note: CARCINOMA TGLs = 6
Kidney
Liver
Lymph Node
 Note: CONGESTION TGLs = 4
Mammary Gland
Nose
Pituitary Gland
 Note: CARCINOMA TGLs = 5
Skin
 Note: FIBROSARC TGLs = 2

Cerebrum

Mesenteric

Nasolacrim Dct
Pars Distalis

Subcut Tiss

Carcinoma

Nephropathy
Inflammation
Congestion

Hyperplasia
Inflammation
Carcinoma

Fibrosarcoma

Deep Invasion (Pituitary Gland), Metastatic (Pituitary Gland)

Mild
Chronic, Mild
Moderate

Moderate
Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 31 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------|-----------------|-------------------------|
| Adrenal Gland - Cortex | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Pancreas | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|----------------------------------|---------------|------------------|---------------------|
| Adrenal Gland | Medulla | Hyperplasia | Focal, Mild |
| Kidney | | Nephropathy | Minimal |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| Lymph Node | Mediastinal | Pigmentation | Hemosiderin, Marked |
| Note: PIGMENT TGLs = 3-2 | | | |
| Ovary | Follicle | Cyst | |
| Note: CYST TGLs = 4-6 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |
| Note: [HYPERPLASIA] TGLs = 5-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 32 | TRT#: 4 | SEX: Female | DAY ON TEST: 735 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Ovary | Pancreas | Parathyroid Gland | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|-----------------|---------------|------------------|---------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Marked |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Mild |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Pituitary Gland | Pars Distalis | Adenoma | |

Note: [ADENOMA] TGLs = 1-7

PRIMARY CAUSE OF DEATH -

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 34 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-----------------------|---------------------|---------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Ovary | Pancreas |
| Parathyroid Gland | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|---------------|----------------------|---------------------|
| Adrenal Gland | Cortex | Degeneration | Moderate |
| Kidney | | Nephropathy | Mild |
| Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| [Hyperplasia TGLS = 5-3] | | | |
| Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-1,3-2] | | | |
| Lymph Node | Mandibular | Hyperplasia | Plasma Cell, Marked |
| | Mesenteric | Pigmentation | Mild |
| Note: HYPERPLASIA TGLs = 1-8 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 6-7 | | | |
| Spleen | | Leukemia Mononuclear | |
| Uterus | | Polyp Stromal | |
| Note: POLYP STROMAL TGLs = 4-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 35 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------|-------------------------|-----------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Lymph Node - Mandibular | Ovary |
| Pancreas | Parathyroid Gland | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|-------------------------------|---------------|------------------|----------------|
| Adrenal Gland | Cortex | Degeneration | Mild |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| Lung | | Inflammation | Acute, Minimal |
| [Inflammation TGLS = 1-1.1] | | | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 2-7 | | | |
| Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|-----------------------|-------------------------|
| ANIMAL ID: 37 | TRT#: 4 | SEX: Female | DAY ON TEST: 680 |
| | DOSE: VEHICLE 72VF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|----------------------------|--------------------|-----------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Intestine Small - Duodenum | Islets, Pancreatic | Kidney |
| Lung | Lymph Node - Mandibular | Ovary | Pancreas |
| Pituitary Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|---------------------|--------------------|------------------|----------|
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA | TGLs = 2-10,2-10.1 | | |
| Uterus | | Polyp Stromal | |
| Note: POLYP STROMAL | TGLs = 3-6 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 38

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: VEHICLE 72VF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-----------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Kidney | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Ovary | Pancreas | Parathyroid Gland |
| Pituitary Gland | Salivary Glands | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------------|-------------|----------------------|----------------|
| Heart | | Cardiomyopathy | Minimal |
| Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | Mild |
| | Bile Duct | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 3-3 | | | |
| Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Pigmentation | Moderate |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 1-10,1-10.1 | | | |
| Spleen | | Fibrosis | Moderate |
| | | Leukemia Mononuclear | |
| Note: FIBROSIS TGLs = 2-3 | | | |
| Note: LEUKEMIA MONUC TGLs = 2-3 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Marked |
| | | Polyp Stromal | |
| Note: HYPERPLASIA TGLs = 4-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 39 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------|-----------------------|---------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node - Mandibular | Ovary | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|---|---------------|----------------------------|-----------------|
| Adrenal Gland | Cortex | Hyperplasia | Focal, Moderate |
| Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| [Hepatodiaphragmatic Nodule TGLS = 1-3] | | | |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| Pituitary Gland | Pars Distalis | Cyst | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 40

TRT#: 4

SEX: Female

DAY ON TEST: 667

DOSE: VEHICLE 72VF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Kidney | Lymph Node - Mandibular |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|-------------------------------|-------------|------------------|-----------------------|
| Heart | | Cardiomyopathy | Moderate |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 3-1,3-2] | | | |
| Lymph Node | Mediastinal | Congestion | Moderate |
| | Mediastinal | Pigmentation | Hemosiderin, Moderate |
| | Mesenteric | Pigmentation | Mild |
| Note: PIGMENT TGLs = 2-1.1 | | | |
| [Congestion TGLS = 2-1.1] | | | |
| Spleen | | Pigmentation | Hemosiderin, Marked |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 41

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: VEHICLE 72VF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Brain

Esophagus

Heart

Intestine Small - Duodenum

Islets, Pancreatic

Lymph Node - Mesenteric

Ovary

Pancreas

Parathyroid Gland

Pituitary Gland

Stomach - Forestomach

Stomach - Glandular

Trachea

Urinary Bladder

Uterus

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 4-7

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Fatty Change

Moderate

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 5-3]

Lung

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 3-1,3-2]

Lymph Node

Mandibular

Leukemia Mononuclear

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-10

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-3

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 42 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------|-------------------------|----------------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Intestine Small - Duodenum |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Ovary |
| Parathyroid Gland | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|-----------------|---------------|------------------|----------|
| Adrenal Gland | Cortex | Degeneration | Moderate |
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Pancreas | Acinus | Atrophy | Marked |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Thyroid Gland | C Cell | Carcinoma | |
| Note: CARCINOMA | TGLs = 1-7 | | |
| Uterus | | Polyp Stromal | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 43 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Brain | Esophagus | Intestine Small - Duodenum |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Ovary |
| Pancreas | Parathyroid Gland | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|----------------------------|------------|------------------|-------------|
| Adrenal Gland | Medulla | Hyperplasia | Focal, Mild |
| Heart | | Cardiomyopathy | Mild |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Pituitary Gland | | Cyst | |
| Note: CYST TGLs = 1-7 | | | |
| Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 44 TRT#: 4 SEX: Female DAY ON TEST: 736
DOSE: VEHICLE 72VF DISP: Terminal Sacrifice HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex | Brain | Esophagus | Intestine Small - Duodenum |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Ovary |
| Pancreas | Parathyroid Gland | Stomach - Forestomach | Stomach - Glandular |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---------------------------------|---------------|-------------------------|------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 4-3 | | | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 5-7 | | | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 2-3 | | | |
| Thyroid Gland | C Cell | Adenoma | |
| Uterus | Cervix | Hyperplasia | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-6.1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 45

TRT#: 4

SEX: Female

DAY ON TEST: 245

DOSE: VEHICLE 72VF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------|-----------------------|-----------|
| Adrenal Gland - Medulla | Bone | Clitoral Gland | Esophagus |
| Islets, Pancreatic | Mammary Gland | Nose | Ovary |
| Parathyroid Gland | Skin | Stomach - Forestomach | Trachea |
| Urethra | Uterus | | |

AUTO PRECLUDES DIAG.

| | | | |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone Marrow | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Pancreas | Thymus | Urinary Bladder |

OBSERVATIONS

| | | | |
|-----------------|---------------|-------------------|----------|
| Adrenal Gland | Cortex | Embolus Bacterial | Moderate |
| Brain | | Embolus Bacterial | Moderate |
| Heart | Interstitium | Embolus Bacterial | Moderate |
| Kidney | Capillary | Embolus Bacterial | Marked |
| Liver | Sinusoid | Embolus Bacterial | Moderate |
| | Midzonal | Necrosis | Marked |
| Note: NECROSIS | TGLs = 8-3 | | |
| Lung | Capillary | Embolus Bacterial | Moderate |
| Pituitary Gland | Pars Distalis | Embolus Bacterial | Mild |
| Salivary Glands | | Embolus Bacterial | Moderate |
| Spleen | | Embolus Bacterial | Moderate |
| | | Necrosis | Marked |
| Stomach | Glandular | Embolus Bacterial | Mild |
| Thyroid Gland | | Embolus Bacterial | Moderate |
| Tissue NOS | | Necrosis | Marked |

PRIMARY CAUSE OF DEATH

-

Animal Note: BACILLI. THEY ARE VERY SHORT RODS. PSEUDOMONAS
 Animal Note: BACTERIAL COLONIES DO NOT RESEMBLE SAPROPHYTIC
 Animal Note: PSEUDOMONAS SEPTICEMIA IS STRONGLY SUSPECTED.
 Animal Note: CAN CAUSE ACUTE DEATHS WITH DISSEMINATED BACTERI-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 45

TRT#: 4

SEX: Female

DAY ON TEST: 245

DOSE: VEHICLE 72VF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: AL COLONIES BUT NO INFLAMMATORY INFILTRATES.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 46 TRT#: 4 SEX: Female DAY ON TEST: 709
DOSE: VEHICLE 72VF DISP: Moribund HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-----------------------|---------------------|-------------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Kidney | Lung | Lymph Node - Mandibular |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|-------------------------------------|---------------|------------------|----------------|
| Adrenal Gland | Cortex | Degeneration | Mild |
| | Cortex | Hyperplasia | Focal, Minimal |
| Islets, Pancreatic | | Hyperplasia | Marked |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| Skin | Subcut Tiss | Fibroma | |
| Note: FIBROMA TGLs = 1-10 | | | |
| Uterus | | Polyp Stromal | |
| Note: POLYP STROMAL TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 47

TRT#: 4

SEX: Female

DAY ON TEST: 481

DOSE: VEHICLE 72VF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Oviduct
Skin
Thymus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pancreas
Spleen
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Nose
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Liver Basophilic Focus
Fatty Change
Lung Congestion

Mild
Marked

Note: GROSS OBSERVATIONS.
Note: TISSUE PROCESSING. POSSIBLE GAVAGE ACCIDENT BASED UPON
Note: GAVAGE ACCIDENT, AS IT COULD HAVE BEEN DISSOLVED IN
Note: THE LACK OF VISIBLE OILY MATERIAL DOES NOT RULE OUT
[Congestion TGLS = 2]

Pituitary Gland Pars Distalis Adenoma
Thyroid Gland C Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 48 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|----------------------------|---------------------|-------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Intestine Small - Duodenum | Islets, Pancreatic | Kidney |
| Lung | Ovary | Pancreas | Parathyroid Gland |
| Salivary Glands | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Lymph Node - Mandibular

OBSERVATIONS

| | | | |
|--------------------|-----------------------|----------------------|----------------|
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| Lymph Node | Mesenteric | Leukemia Mononuclear | |
| | Mesenteric | Pigmentation | Minimal |
| Mammary Gland | | Fibroadenoma | Multiple |
| | | Hyperplasia | Cystic, Marked |
| Note: FIBROADENOMA | TGLs = 2-11,3-12,4-13 | | |
| Note: HYPERPLASIA | TGLs = 1-10 | | |
| Note: FIBROADENOMA | TGLs = 1-10 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 5-7 | | |
| Spleen | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|-----------------------|-------------------------|
| ANIMAL ID: 49 | TRT#: 4 | SEX: Female | DAY ON TEST: 708 |
| | DOSE: VEHICLE 72VF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------|-------------------|-----------------|
| Adrenal Gland - Cortex | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Kidney | Lung |
| Lymph Node - Mandibular | Ovary | Parathyroid Gland | Pituitary Gland |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--------------------------------|------------|------------------|---------------------|
| Adrenal Gland | Medulla | Hyperplasia | Focal, Moderate |
| Liver | | Basophilic Focus | |
| | | Inflammation | Chronic, Mild |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 1-10 | | | |
| Pancreas | Acinus | Atrophy | Mild |
| Spleen | | Pigmentation | Hemosiderin, Marked |
| Uterus | | Polyp Stromal | |
| Note: POLYP STROMAL TGLs = 2-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 50

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: VEHICLE 72VF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------|-----------------------|---------|----------------------------|
| Brain | Esophagus | Heart | Intestine Small - Duodenum |
| Islets, Pancreatic | Kidney | Lung | Ovary |
| Pancreas | Stomach - Forestomach | Trachea | Urinary Bladder |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|-------------------------------------|---------------|----------------------|----------------------------|
| Adrenal Gland | Cortex | Degeneration | Marked |
| | Medulla | Leukemia Mononuclear | |
| | Cortex | Necrosis | Moderate |
| Note: DEGEN TGLs = 6-7 | | | |
| Liver | | Fatty Change | Marked |
| | | Leukemia Mononuclear | |
| [Fatty Change TGLS = 7-3] | | | |
| [Leukemia Mononuclear TGLS = 7-3] | | | |
| Lymph Node | Deep Cervical | Carcinoma | Metastatic (Thyroid Gland) |
| | Mandibular | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Mesenteric | Pigmentation | Mild |
| Note: CARCINOMA TGLs = 3-3 | | | |
| Pituitary Gland | | Leukemia Mononuclear | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 5-3 | | | |
| Stomach | Glandular | Leukemia Mononuclear | |
| Thyroid Gland | C Cell | Carcinoma | |
| Note: CARCINOMA TGLs = 2-7 | | | |
| Uterus | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 4-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:21
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 51

TRT#: 4

SEX: Female

DAY ON TEST: 199

DOSE: VEHICLE 72VF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Skin
Thymus
Uterus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Forestomach
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Mammary Gland

Carcinoma

Note: CARCINOMA TGLs = 1-13+13.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:21

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 52

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: VEHICLE 72VF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------|-----------------------|----------------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Intestine Small - Duodenum |
| Islets, Pancreatic | Lung | Ovary | Pancreas |
| Parathyroid Gland | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Lymph Node - Mandibular

OBSERVATIONS

| | | | |
|--------------------------------|---------------|----------------|-----------------------|
| Adrenal Gland | Cortex | Hyperplasia | Focal, Mild |
| Clitoral Gland | Duct | Adenoma | Moderate |
| | | Cyst | |
| | | Inflammation | Suppurative, Moderate |
| Note: CYST TGLs = 1-10 | | | |
| Heart | | Cardiomyopathy | Minimal |
| Intestine Large | Colon | Adenocarcinoma | |
| Note: ADENOCARC TGLs = 4-10 | | | |
| Kidney | | Nephropathy | Mild |
| Liver | | Inflammation | Chronic, Mild |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Mesentery | | Inflammation | Chronic, Moderate |
| Note: INFLAMMATION TGLs = 2-11 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 3-7 | | | |
| Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 53 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------|-----------------------|-------------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Pancreas | Parathyroid Gland | Stomach - Forestomach | Stomach - Glandular |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|-----------------|-------------|----------------------|------------------|
| Adrenal Gland | Cortex | Leukemia Mononuclear | |
| Kidney | | Nephropathy | Minimal |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Ovary | | Leukemia Mononuclear | |
| Pituitary Gland | | Cyst | |
| Spleen | | Leukemia Mononuclear | |
| Thyroid Gland | C Cell | Adenoma | |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Polyp Stromal | |

Note: POLYP STROMAL TGLs = 2-6

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 55

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: VEHICLE 72VF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Brain

Esophagus

Heart

Intestine Small - Duodenum

Ovary

Pancreas

Salivary Glands

Spleen

Stomach - Forestomach

Stomach - Glandular

Thyroid Gland

Trachea

Urinary Bladder

Uterus

MISSING

Lymph Node - Mandibular

Parathyroid Gland

OBSERVATIONS

Adrenal Gland

Cortex

Degeneration

Mild

Islets, Pancreatic

Hyperplasia

Mild

Kidney

Nephropathy

Moderate

Liver

Inflammation

Granulomatous, Minimal

Lung

Inflammation

Granulomatous, Minimal

Lymph Node

Mesenteric

Pigmentation

Moderate

Note: PIGMENT TGLs = 3-9

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 4-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 56 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|---------------------|---------------|----------------------------|
| Brain | Esophagus | Heart | Intestine Small - Duodenum |
| Islets, Pancreatic | Lung | Pancreas | Parathyroid Gland |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

MISSING

Lymph Node - Mandibular

OBSERVATIONS

| | | | |
|---|--|---|---------------------------------------|
| Adrenal Gland Note: OSTEOSARC TGLs = 4-8 | Cortex, Medulla | Osteosarcoma | Metastatic (Uncertain Primary Site) |
| Kidney | | Nephropathy | Mild |
| Liver | | Angiectasis | Focal, Mild |
| | | Basophilic Focus | |
| Lymph Node Note: PIGMENT TGLs = 1 Note: CONGESTION TGLs = 1-1.1 | Bile Duct Mediastinal Mesenteric | Hyperplasia Pigmentation Pigmentation | Mild Hemosiderin, Moderate Mild |
| Ovary | | Osteosarcoma | Metastatic (Uncertain Primary Site) |
| Pituitary Gland Note: [ANGIECTASIS] TGLs = 5-7 | Pars Distalis | Angiectasis | Mild |
| Spleen Note: OSTEOSARC TGLs = 3-3 | | Osteosarcoma | Metastatic (Uncertain Primary Site) |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 58

TRT#: 4

SEX: Female

DAY ON TEST: 246

DOSE: VEHICLE 72VF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Trachea

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Thyroid Gland

OBSERVATIONS

| | | |
|----------------------|----------------|----------------------|
| Kidney | | Leukemia Mononuclear |
| Liver | | Leukemia Mononuclear |
| Lung | | Leukemia Mononuclear |
| Lymph Node | Mesenteric | Leukemia Mononuclear |
| | Pancreatic | Leukemia Mononuclear |
| Note: LEUKEMIA MONUC | TGLs = 4-13 | |
| Note: LEUKEMIA MONUC | TGLs = 5-9 | |
| Mesentery | | Leukemia Mononuclear |
| Ovary | Periovarn Tiss | Leukemia Mononuclear |
| Skin | Subcut Tiss | Leukemia Mononuclear |
| Spleen | | Leukemia Mononuclear |
| Note: LEUKEMIA MONUC | TGLs = 1-3 | |
| Stomach | Forestomach | Leukemia Mononuclear |
| | Glandular | Leukemia Mononuclear |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|---------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 60 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: VEHICLE 72VF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|-------------------------|-------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Intestine Small - Duodenum | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Ovary | Pancreas | Parathyroid Gland | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|--------------------------------|---------------|------------------|----------------|
| Heart | | Cardiomyopathy | Minimal |
| Kidney | | Nephropathy | Mild |
| Liver | | Basophilic Focus | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | Multiple |
| | | Hyperplasia | Cystic, Marked |
| Note: FIBROADENOMA TGLs = 4-13 | | | |
| Note: FIBROADENOMA TGLs = 3-12 | | | |
| Note: CARCINOMA TGLs = 1-10 | | | |
| Note: HYPERPLASIA TGLs = 2-11 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 5-7 | | | |
| Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 61

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 4-3

Kidney

Nephropathy

Minimal

Renal Tubule

Pigmentation

Hemosiderin, Moderate

Lymph Node

Mesenteric

Pigmentation

Mild

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 5-2

[Pigmentation TGLS = 6-3]

Mammary Gland

Fibroadenoma

Multiple

Note: FIBROADENOMA TGLs = 2-5,2-5.1

Note: FIBROADENOMA TGLs = 1-4

Pituitary Gland

Pars Distalis

Adenoma

Note: [ADENOMA] TGLs = 3-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|--------------------|-------------------------|
| ANIMAL ID: 62 | TRT#: 5 | SEX: Female | DAY ON TEST: 610 |
| | DOSE: .0125 G/KG 72LF | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Clitoral Gland | Esophagus | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lymph Node - Mesenteric | Nose | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Uterus | |

MISSING

| | | |
|-------------------------|---------------|-----------------|
| Lymph Node - Mandibular | Mammary Gland | Urinary Bladder |
|-------------------------|---------------|-----------------|

OBSERVATIONS

| | | | |
|-----------------------------|--------------------------|----------------|-----------------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 3-7 | | | |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | | Congestion | Marked |
| | | Fatty Change | Minimal |
| Note: CONGESTION TGLs = 4-3 | | | |
| Lung | | Congestion | Moderate |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 6-8 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 63 | TRT#: 5 | SEX: Female | DAY ON TEST: 731 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|-------------------------|-----------------|
| Adrenal Gland - Medulla | Urinary Bladder |
|-------------------------|-----------------|

OBSERVATIONS

| | | | |
|-----------------|--------------------------|------------------|-----------------------|
| Adrenal Gland | Capsule | Degeneration | Moderate |
| | Cortex | Degeneration | Moderate |
| Note: DEGEN | TGLs = 1-2 | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | | Nephropathy | Mild |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| Lymph Node | Mesenteric | Pigmentation | Minimal |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 4-3 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 3-2 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 64 | TRT#: 5 | SEX: Female | DAY ON TEST: 731 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|-----------------|-----------------|
| Pituitary Gland | Urinary Bladder |
|-----------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------|--------------------------|--------------|-------------------|
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 1-3 | | | |
| Kidney | Renal Tubule | Nephropathy | Minimal |
| | Mesenteric | Pigmentation | Hemosiderin, Mild |
| Lymph Node | Pancreatic | Pigmentation | Mild |
| Note: PIGMENT TGLs = 2-2 | | | Marked |
| Note: PIGMENT TGLs = 3-3 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 65 | TRT#: 5 | SEX: Female | DAY ON TEST: 731 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|-----------------|-----------------|
| Pituitary Gland | Urinary Bladder |
|-----------------|-----------------|

OBSERVATIONS

| | | | |
|---|--------------------------|------------------------------|----------------------------------|
| Intestine Small Note: PIGMENT TGLs = 3-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Minimal Hemosiderin, Moderate |
| Lymph Node Note: PIGMENT TGLs = 2-2 [Pigmentation TGLS = 4-3] | Mesenteric Pancreatic | Pigmentation Pigmentation | Moderate Marked |
| Uterus Note: HYDROMETRA TGLs = 1-4 | | Hydrometra | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 66 | TRT#: 5 | SEX: Female | DAY ON TEST: 731 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| Eye | Lymph Node - Mesenteric | Urinary Bladder | |
|--|--------------------------|-----------------|-----------------------|
| OBSERVATIONS | | | |
| Intestine Small Note: PIGMENT TGLs = 3-3 | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | Renal Tubule | Nephropathy | Mild |
| Lymph Node Note: PIGMENT TGLs = 6-3 | Pancreatic | Pigmentation | Hemosiderin, Moderate |
| Mammary Gland Note: FIBROADENOMA TGLs = 1-4 | | Pigmentation | Moderate |
| Ovary Note: CYST TGLs = 2-5 | Follicle | Fibroadenoma | |
| Pituitary Gland Note: ADENOMA TGLs = 5-2 | Pars Distalis | Cyst | |
| | | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 67

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Nephropathy

Minimal

Renal Tubule

Pigmentation

Hemosiderin, Moderate

Lung

Congestion

Mild

Note: CONGESTION TGLs = 2-4,2-5

Lymph Node

Mesenteric

Pigmentation

Mild

Pancreatic

Pigmentation

Moderate

Note: PIGMENT TGLs = 7-3

Note: PIGMENT TGLs = 5-2

Pituitary Gland

Pars Distalis

Adenoma

Note: [ADENOMA] TGLs = 6-2

Skin

Subcut Tiss

Fibroma

Note: FIBROMA TGLs = 1-7

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 3-6,4-6,8-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 68

TRT#: 5

SEX: Female

DAY ON TEST: 731

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node - Mesenteric

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Nephropathy

Minimal

Renal Tubule

Pigmentation

Hemosiderin, Moderate

Pancreatic

Pigmentation

Marked

Lymph Node

Note: PIGMENT TGLs = 1-3

Pituitary Gland

Pars Distalis

Adenoma

Urinary Bladder

Submucosa

Inflammation

Granulomatous, Marked

Note: INFLAMMATION TGLs = 2-3

Note: PAPILLOMA TGLs = 2-3

Papilloma

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 69 | TRT#: 5 | SEX: Female | DAY ON TEST: 731 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|-----------------|-----------------|
| Pituitary Gland | Urinary Bladder |
|-----------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------------------------|--------------------------|--------------|-----------------------|
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 3-3 | | | |
| Kidney | Renal Tubule | Nephropathy | Minimal |
| | Mesenteric | Pigmentation | Hemosiderin, Moderate |
| Lymph Node | Pancreatic | Pigmentation | Mild |
| | | Pigmentation | Marked |
| Note: PIGMENT TGLs = 5-3 | | | |
| Note: PIGMENT TGLs = 4-2 | | | |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 2-4,2-4.1 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 72 | TRT#: 5 | SEX: Female | DAY ON TEST: 731 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| Liver | Pituitary Gland | Urinary Bladder | |
|--|--------------------------|-----------------|-------------------|
| OBSERVATIONS | | | |
| Intestine Small Note: PIGMENT TGLs = 5-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy | Minimal |
| Lymph Node | Mesenteric | Pigmentation | Hemosiderin, Mild |
| Note: PIGMENT TGLs = 6-2 | Pancreatic | Pigmentation | Mild |
| Note: PIGMENT TGLs = 7-3 | | | Marked |
| Mammary Gland Note: FIBROADENOMA TGLs = 1-6 | | Fibroadenoma | |
| Mesentery Note: NECROSIS TGLs = 2-5 | Fat | Necrosis | Focal, Marked |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|--------------------|-------------------------|
| ANIMAL ID: 73 | TRT#: 5 | SEX: Female | DAY ON TEST: 422 |
| | DOSE: .0125 G/KG 72LF | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|---------------------------|--------------------------|------------------|-------------------|
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Mild |
| Liver | | Basophilic Focus | |
| | | Congestion | Mild |
| Note: CONGESTION TGLs = 3 | | | |
| Lung | | Congestion | Moderate |
| Note: CONGESTION TGLs = 1 | | | |
| Pituitary Gland | Pars Distalis | Cyst | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 74 | TRT#: 5 | SEX: Female | DAY ON TEST: 731 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

| | | | |
|-------------------------------------|--------------------------|----------------------------|-------------------|
| Heart | Ventricle | Fibrosis | Marked |
| Note: FIBROSIS TGLs = 4-4 | | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 8-3 | | | |
| Kidney | Renal Tubule | Nephropathy | Minimal |
| | | Pigmentation | Hemosiderin, Mild |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Moderate |
| | | Hepatodiaphragmatic Nodule | |
| Note: FATTY CHANGE TGLs = 7-5 | | | |
| Note: ANOM HEPAT LOB TGLs = 6-5 | | | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 9-2 | | | |
| Note: PIGMENT TGLs = 10-3 | | | |
| Mammary Gland | | Fibroadenoma | Multiple |
| Note: FIBROADENOMA TGLs = 3-8 | | | |
| Note: FIBROADENOMA TGLs = 2-7 | | | |
| Note: FIBROADENOMA TGLs = 1-6,1-6.1 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Uterus | | Polyp Stromal | |
| Note: POLYP STROMAL TGLs = 5-3 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 75

TRT#: 5

SEX: Female

DAY ON TEST: 653

DOSE: .0125 G/KG 72LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node - Mesenteric
Urinary Bladder

Pituitary Gland

Stomach - Forestomach

Stomach - Glandular

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 3-5

Carcinoma

Intestine Small
Islets, Pancreatic

Duodenum, Lamina Propria

Pigmentation

Moderate

Kidney

Liver

Note: LEUKEMIA MONUC TGLs = 7-6

Pelvis
Renal Tubule
Bile Duct

Carcinoma
Leukemia Mononuclear
Pigmentation
Hyperplasia
Leukemia Mononuclear

Hemosiderin, Mild
Minimal

Lymph Node
Note: PIGMENT TGLs = 6-3

Pancreatic

Pigmentation

Marked

Mammary Gland
Note: FIBROADENOMA TGLs = 2-4,2-4.1

Fibroadenoma

Spleen
Note: LEUKEMIA MONUC TGLs = 4-7

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|-----------------------|-------------------------|
| ANIMAL ID: 76 | TRT#: 5 | SEX: Female | DAY ON TEST: 694 |
| | DOSE: .0125 G/KG 72LF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node - Mesenteric

Urinary Bladder

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Moderate

Note: PIGMENT TGLs = 6-3

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Lymph Node

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 9-3

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-4,2-4.1

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 8-2

Spleen

Hematopoietic Cell Proliferation

Marked

Note: HEMA CELL PROL TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|--------------------|-------------------------|
| ANIMAL ID: 77 | TRT#: 5 | SEX: Female | DAY ON TEST: 704 |
| | DOSE: .0125 G/KG 72LF | DISP: Dead | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

| | | | |
|---|--------------------------|--|-----------------------|
| Intestine Small Note: PIGMENT TGLs = 3-3 | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | Renal Tubule | Hyperplasia Nephropathy | Focal, Mild Mild |
| Liver Note: LEUKEMIA MONUC TGLs = 5-6 | Renal Tubule | Pigmentation Basophilic Focus Leukemia Mononuclear | Hemosiderin, Moderate |
| Lung Note: CONGESTION TGLs = 1-4,1-5 | | Congestion | Moderate |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Pituitary Gland Note: ADENOMA TGLs = 6-2 | Pars Distalis | Adenoma | |
| Spleen Note: LEUKEMIA MONUC TGLs = 2-6 | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 78 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 480
DOSE: .0125 G/KG 72LF **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

| | | | |
|---|--------------------------|-------------------|-----------------------|
| Brain Note: [GLIOMA NOS] TGLs = 7 | Pons | Glioma Nos | |
| Harderian Gland | | Inflammation | Chronic, Mild |
| Intestine Large | Rectum | Parasite Metazoan | |
| Intestine Small Note: PIGMENT TGLs = 1 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| Lymph Node Note: PIGMENT TGLs = 3 | Pancreatic | Pigmentation | Marked |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 80

TRT#: 5

SEX: Female

DAY ON TEST: 540

DOSE: .0125 G/KG 72LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Esophagus | Heart | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic | Lung | Nose | Ovary |
| Oviduct | Pancreas | Parathyroid Gland | Salivary Glands |
| Skin | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

Lymph Node - Mandibular

OBSERVATIONS

| | | | |
|----------------------|--------------------------|----------------------------------|-------------------|
| Clitoral Gland | | Carcinoma | |
| Note: CARCINOMA | TGLs = 2 | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 7 | | |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Mild |
| Liver | | Hematopoietic Cell Proliferation | Minimal |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 5 | | |
| Note: PIGMENT | TGLs = 11 | | |
| Mammary Gland | | Hyperplasia | Cystic, Moderate |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 10 | | |
| Spleen | | Hematopoietic Cell Proliferation | Marked |
| Note: HEMA CELL PROL | TGLs = 4 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 81

TRT#: 5

SEX: Female

DAY ON TEST: 714

DOSE: .0125 G/KG 72LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung Urinary Bladder

OBSERVATIONS

| | | | |
|--|--------------------------|---|-------------------------------|
| Intestine Large | Cecum, Mucosa | Pigmentation | Marked |
| Note: PIGMENT TGLs = 14-6 | | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 7-3 | | | |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Marked Hemosiderin, Marked |
| [Nephropathy TGLS = 9-1] | | | |
| Liver | Bile Duct | Fatty Change Hyperplasia Leukemia Mononuclear | Marked Minimal |
| [Leukemia Mononuclear TGLS = 10-7] | | | |
| Lymph Node | Mesenteric Pancreatic | Pigmentation Pigmentation | Moderate Marked |
| Note: PIGMENT TGLs = 6-2 | | | |
| Note: PIGMENT TGLs = 12-3 | | | |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 2-4,3-4 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 11-2 | | | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 5-7 | | | |
| Stomach | Forestomach | Ulcer | Marked |
| Note: ULCER TGLs = 13-8 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 82 | TRT#: 5 | SEX: Female | DAY ON TEST: 732 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | |
|-------------------------|-----------------|-----------------|
| Lymph Node - Mesenteric | Pituitary Gland | Urinary Bladder |
|-------------------------|-----------------|-----------------|

OBSERVATIONS

| | | | |
|--|--------------------------|--------------|-----------------------|
| Intestine Small Note: PIGMENT TGLs = 2-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Lymph Node Note: PIGMENT TGLs = 4-3 | Pancreatic | Pigmentation | Marked |
| Mammary Gland Note: FIBROADENOMA TGLs = 1-4 | | Fibroadenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 83 | TRT#: 5 | SEX: Female | DAY ON TEST: 732 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

| | | | |
|--|--------------------------|--|------------------------------------|
| Intestine Small Note: PIGMENT TGLs = 2-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Mild Hemosiderin, Moderate |
| Liver Note: INFLAMMATION TGLs = 5-4 | | Basophilic Focus Fatty Change Inflammation | Minimal Granulomatous, Moderate |
| Lymph Node Note: PIGMENT TGLs = 3-2 Note: PIGMENT TGLs = 4-3 | Mesenteric Pancreatic | Pigmentation Pigmentation | Marked Marked |
| Mammary Gland Note: FIBROADENOMA TGLs = 1-5 | | Fibroadenoma | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 84

TRT#: 5

SEX: Female

DAY ON TEST: 443

DOSE: .0125 G/KG 72LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Heart
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone
Intestine Large - Cecum
Intestine Small - Jejunum
Nose
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Colon
Islets, Pancreatic
Ovary
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Rectum
Lung
Oviduct
Salivary Glands
Stomach - Glandular
Urinary Bladder

MISSING

Clitoral Gland

Esophagus

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland
Intestine Small
 Note: PIGMENT TGLs = 2
Kidney
Liver
Lymph Node
 Note: PIGMENT TGLs = 3
Mammary Gland
 Note: FIBROADENOMA TGLs = 1

Cortex
Duodenum, Lamina Propria
Renal Tubule
Pancreatic

Hyperplasia
Pigmentation
Pigmentation
Basophilic Focus
Pigmentation
Fibroadenoma

Mild
Marked
Hemosiderin, Moderate
Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 86 | TRT#: 5 | SEX: Female | DAY ON TEST: 732 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | |
|-------------------------|-------|-----------------|
| Lymph Node - Mesenteric | Ovary | Urinary Bladder |
|-------------------------|-------|-----------------|

OBSERVATIONS

| | | | |
|--|--------------------------|-----------------------------|----------------------------------|
| Intestine Small Note: PIGMENT TGLs = 3-3 | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Minimal Hemosiderin, Moderate |
| Lymph Node Note: PIGMENT TGLs = 6-3 | Pancreatic | Pigmentation | Marked |
| Mammary Gland Note: FIBROADENOMA TGLs = 1-4 | | Fibroadenoma | |
| Mesentery Note: NECROSIS TGLs = 4-5 | Fat | Necrosis | Focal, Marked |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 89 | TRT#: 5 | SEX: Female | DAY ON TEST: 732 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|-------|-----------------|
| Ovary | Urinary Bladder |
|-------|-----------------|

OBSERVATIONS

| | | | |
|--|--------------------------|--------------|-----------------------|
| Clitoral Gland Note: [ADENOMA] TGLs = 2-6 | | Adenoma | |
| Intestine Small Note: PIGMENT TGLs = 5-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | Mesenteric | Pigmentation | Hemosiderin, Moderate |
| Lymph Node Note: PIGMENT TGLs = 6-2 | | Pigmentation | Mild |
| Mammary Gland Note: FIBROADENOMA TGLs = 1-4 | | Fibroadenoma | |
| Mesentery Note: NECROSIS TGLs = 3-5 | Fat | Necrosis | Focal, Marked |
| Pituitary Gland Note: ADENOMA TGLs = 7-2 | Pars Distalis | Adenoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 90 | TRT#: 5 | SEX: Female | DAY ON TEST: 732 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

| | | | | |
|-----------------------|------------|--------------------------|--------------|-----------------------|
| Clitoral Gland | | | Carcinoma | |
| Note: CARCINOMA | TGLs = 3-4 | | | |
| Intestine Small | | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 5-3 | | | |
| Islets, Pancreatic | | | Adenoma | |
| Kidney | | Renal Tubule | Nephropathy | Mild |
| | | | Pigmentation | Hemosiderin, Moderate |
| Lung | | | Hemorrhage | Focal, Moderate |
| | | Alveolar Epith | Hyperplasia | Focal, Mild |
| Note: HEMORRHAGE | TGLs = 4-4 | | | |
| Note: [HYPERPLASIA] | TGLs = 4-4 | | | |
| Lymph Node | | Mesenteric | Pigmentation | Mild |
| Note: PIGMENT | TGLs = 6-2 | | | |
| Mammary Gland | | | Fibroadenoma | Multiple |
| Note: FIBROADENOMA | TGLs = 1-5 | | | |
| Note: FIBROADENOMA | TGLs = 2-6 | | | |
| Pituitary Gland | | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 7-2 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 91 | TRT#: 5 | SEX: Female | DAY ON TEST: 732 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|-------------------------|-----------------|
| Lymph Node - Mesenteric | Urinary Bladder |
|-------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------------------|--------------------------|--------------|-------------------|
| Clitoral Gland | | Inflammation | Chronic, Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 5-3 | | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | Pancreatic | Pigmentation | Hemosiderin, Mild |
| Lymph Node | | Pigmentation | Marked |
| Note: PIGMENT TGLs = 7-3 | | | |
| Mammary Gland | | Fibroadenoma | Multiple |
| | | Hyperplasia | Cystic, Marked |
| Note: FIBROADENOMA TGLs = 1-4 | | | |
| Note: FIBROADENOMA TGLs = 2-5 | | | |
| Note: HYPERPLASIA TGLs = 1-4 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 4-2 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 92

TRT#: 5

SEX: Female

DAY ON TEST: 568

DOSE: .0125 G/KG 72LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Ovary
Salivary Glands
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Islets, Pancreatic
Pancreas
Skin
Thymus

Bone
Esophagus
Intestine Large - Rectum
Lymph Node - Mandibular
Parathyroid Gland
Spleen
Trachea

Bone Marrow
Heart
Intestine Small - Ileum
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Intestine Small
Note: PIGMENT TGLs = 5-7
Kidney
Liver
Lung
Note: CARCINOMA TGLs = 4-1,4-2
Lymph Node
Note: PIGMENT TGLs = 3-8
Thyroid Gland
Note: CARCINOMA TGLs = 2-8.1

Duodenum, Lamina Propria
Renal Tubule
Mesenteric
C Cell

Pigmentation
Pigmentation
Fatty Change
Carcinoma
Pigmentation
Carcinoma

Moderate
Hemosiderin, Mild
Moderate
Metastatic (Thyroid Gland)
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 95 | TRT#: 5 | SEX: Female | DAY ON TEST: 732 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|-------------------------|-----------------|
| Intestine Large - Colon | Urinary Bladder |
|-------------------------|-----------------|

OBSERVATIONS

| | | | |
|--|--------------------------|--|-------------------------------|
| Intestine Small Note: PIGMENT TGLs = 7-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Mild Hemosiderin, Moderate |
| Liver Note: LEUKEMIA MONUC TGLs = 5-7 | | Basophilic Focus Fatty Change Leukemia Mononuclear | Minimal |
| Lymph Node Note: PIGMENT TGLs = 10-3 Note: PIGMENT TGLs = 8-2 | Mesenteric Pancreatic | Pigmentation Pigmentation | Moderate Marked |
| Mammary Gland Note: FIBROADENOMA TGLs = 3-6 Note: FIBROADENOMA TGLs = 2-5 Note: FIBROADENOMA TGLs = 1-4 | | Fibroadenoma | Multiple |
| Pituitary Gland Note: ADENOMA TGLs = 6-2 | Pars Distalis | Adenoma | |
| Spleen Note: LEUKEMIA MONUC TGLs = 4-7 | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 96 | TRT#: 5 | SEX: Female | DAY ON TEST: 732 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

| | | | |
|--|--------------------------|------------------------------|-------------------------------|
| Intestine Small Note: PIGMENT TGLs = 2-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Mild Hemosiderin, Moderate |
| Liver Note: BASOPH FOCUS TGLs = 3-4 | | Basophilic Focus | |
| Lymph Node Note: PIGMENT TGLs = 5-3 Note: PIGMENT TGLs = 1-2 | Mesenteric Pancreatic | Pigmentation Pigmentation | Moderate Marked |
| Pituitary Gland Note: ADENOMA TGLs = 4-2 | Pars Distalis | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 97 | TRT#: 5 | SEX: Female | DAY ON TEST: 732 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | |
|-----|-----------------|
| Eye | Urinary Bladder |
|-----|-----------------|

OBSERVATIONS

| | | | | |
|-----------------|------------|--------------------------|--------------|-----------------------|
| Intestine Small | | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 2-3 | | | |
| Kidney | | Renal Tubule | Nephropathy | Minimal |
| | | Mesenteric | Pigmentation | Hemosiderin, Moderate |
| Lymph Node | | Pancreatic | Pigmentation | Minimal |
| Note: PIGMENT | TGLs = 5-3 | | | Marked |
| Pituitary Gland | | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 4-2 | | | |

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 98 | TRT#: 5 | SEX: Female | DAY ON TEST: 732 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

| | | | |
|--|--------------------------|------------------------------|-------------------------------|
| Intestine Small Note: PIGMENT TGLs = 1-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Mild Hemosiderin, Moderate |
| Lymph Node Note: PIGMENT TGLs = 4-3 Note: PIGMENT TGLs = 2-2 | Mesenteric Pancreatic | Pigmentation Pigmentation | Mild Marked |
| Mammary Gland Note: FIBROADENOMA TGLs = 3-4 | | Fibroadenoma | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 100

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

| | | | |
|---|--------------------------|-----------------------------|----------------------------------|
| Intestine Small Note: PIGMENT TGLs = 2-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Minimal Hemosiderin, Moderate |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Note: PIGMENT TGLs = 3-2 | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 4-3 | | | |
| Pituitary Gland Note: [HYPERPLASIA] TGLs = 1-2 | Pars Distalis | Hyperplasia | Focal, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 101

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 3-3

Kidney

Renal Tubule

Nephropathy

Marked

Pigmentation

Hemosiderin, Marked

Liver

Basophilic Focus

Hemorrhage

Multifocal, Moderate

Note: HEMORRHAGE TGLs = 4-4

Lymph Node

Mesenteric

Pigmentation

Mild

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 2-2

Note: PIGMENT TGLs = 6-3

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-5

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 5-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|-----------------------|------------------------------|-----------------------|-------------------------|
| ANIMAL ID: 102 | TRT#: 5 | SEX: Female | DAY ON TEST: 716 |
| | DOSE: .0125 G/KG 72LF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye

OBSERVATIONS

| | | | |
|---------------------------------|--------------------------|----------------------|-----------------------|
| Adrenal Gland | Cortex | Degeneration | Mild |
| | Medulla | Hyperplasia | Focal, Mild |
| | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 6-3 | | | |
| Kidney | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 8-5 | | | |
| Lymph Node | Mesenteric | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | Pancreatic | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 10-3 | | | |
| Note: LEUKEMIA MONUC TGLs = 5-2 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| Note: ADENOMA TGLs = 9-2 | | | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 4-6 | | | |
| Thymus | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 3-7 | | | |
| Urinary Bladder | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 103

TRT#: 5

SEX: Female

DAY ON TEST: 342

DOSE: .0125 G/KG 72LF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------------|---------------------|-------------------------|
| Bone | Bone Marrow | Brain | Esophagus |
| Heart | Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Nose | Ovary | Oviduct |
| Pancreas | Pituitary Gland | Salivary Glands | Skin |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

| | | |
|----------------|---------------|-------------------|
| Clitoral Gland | Mammary Gland | Parathyroid Gland |
|----------------|---------------|-------------------|

AUTO PRECLUDES DIAG.

| | | | |
|-------------------------|-------------------------|--------------------------|-------------------------|
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
|-------------------------|-------------------------|--------------------------|-------------------------|

OBSERVATIONS

| | | | |
|---------------------------|--------------------------|--------------|-----------------|
| Adrenal Gland | Cortex | Congestion | Moderate |
| | Medulla | Congestion | Moderate |
| Note: CONGESTION TGLs = 4 | | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Mild |
| Kidney | Papilla | Necrosis | Diffuse, Marked |
| Liver | | Fatty Change | Mild |
| Lung | | Congestion | Marked |
| Note: CONGESTION TGLs = 1 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 104

TRT#: 5

SEX: Female

DAY ON TEST: 617

DOSE: .0125 G/KG 72LF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Clitoral Gland | Esophagus | Intestine Large - Rectum |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Lymph Node - Mesenteric |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Glandular | Thymus |
| Thyroid Gland | Trachea | Urinary Bladder | |

AUTO PRECLUDES DIAG.

| | | | |
|-------------------------|-------------------------|-------------------------|---------------------------|
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------------------|-------------------------|-------------------------|---------------------------|

OBSERVATIONS

| | | | |
|--|--------------------------|----------------|-----------------------|
| Heart | | Cardiomyopathy | Moderate |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | | Fatty Change | Marked |
| | Bile Duct | Hyperplasia | Minimal |
| Note: FATTY CHANGE TGLs = 4-3 | | | |
| Mammary Gland | | Hyperplasia | Mild |
| Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| Skin | Subcut Tiss | Sarcoma | Multiple |
| Note: SARCOMA TGLs = 2-13 | | | |
| Note: SARCOMA TGLs = 3-14 | | | |
| Note: SARCOMA SKIN IS OSTEOGENIC SARCOMA | | | |
| Stomach | Forestomach | Ulcer | Minimal |
| Uterus | | Polyp Stromal | |
| Note: POLYP STROMAL TGLs = 5-6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 106 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 732
DOSE: .0125 G/KG 72LF **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye Urinary Bladder

OBSERVATIONS

| | | | | |
|----------------------|------------|--------------------------|----------------------------------|-----------------------|
| Clitoral Gland | | | Carcinoma | |
| Note: CARCINOMA | TGLs = 2-6 | | | |
| Intestine Small | | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 5-3 | | | |
| Kidney | | Renal Tubule | Nephropathy | Minimal |
| | | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Bile Duct | Basophilic Focus | |
| | | | Hyperplasia | Mild |
| | | | Necrosis | Multifocal, Moderate |
| Note: NECROSIS | TGLs = 7-5 | | | |
| Lymph Node | | Mesenteric | Pigmentation | Mild |
| | | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 9-3 | | | |
| Note: PIGMENT | TGLs = 6-2 | | | |
| Mesentery | | Fat | Necrosis | Focal, Marked |
| Note: NECROSIS | TGLs = 4-4 | | | |
| Pituitary Gland | | Pars Distalis | Adenoma | |
| Spleen | | | Hematopoietic Cell Proliferation | Marked |
| Note: HEMA CELL PROL | TGLs = 3-5 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 107

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye
Urinary Bladder

Intestine Large - Colon

Lymph Node - Mesenteric

Pituitary Gland

OBSERVATIONS

Intestine Small
Note: PIGMENT TGLs = 3-3

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Renal Tubule

Nephropathy

Minimal

Lymph Node
Note: PIGMENT TGLs = 6-3

Pancreatic

Pigmentation

Hemosiderin, Mild

Pigmentation

Marked

Mammary Gland
Note: FIBROADENOMA TGLs = 2-5

Fibroadenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 108

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Large - Colon

Lymph Node - Mesenteric

Urinary Bladder

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 3-3

Kidney

Nephropathy

Mild

Renal Tubule

Pigmentation

Hemosiderin, Moderate

Pancreatic

Pigmentation

Marked

Lymph Node

Note: PIGMENT TGLs = 6-3

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-4

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 2-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|-----------------------|------------------------------|-----------------------|-------------------------|
| ANIMAL ID: 109 | TRT#: 5 | SEX: Female | DAY ON TEST: 690 |
| | DOSE: .0125 G/KG 72LF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | |
|-----|-------------------------|-----------------|
| Eye | Lymph Node - Mesenteric | Urinary Bladder |
|-----|-------------------------|-----------------|

OBSERVATIONS

| | | | |
|-----------------|--------------------------|--------------|---------------------|
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | | Nephropathy | Mild |
| | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 2-2 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 110

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Intestine Large - Colon

Urinary Bladder

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 2-3

Kidney

Nephropathy

Minimal

Renal Tubule

Pigmentation

Hemosiderin, Moderate

Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Minimal

Note: [HYPERPLASIA] TGLs = 1-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 111

TRT#: 5

SEX: Female

DAY ON TEST: 434

DOSE: .0125 G/KG 72LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Nose
Parathyroid Gland
Spleen
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Lymph Node - Mandibular
Ovary
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Bone
Heart
Intestine Small - Ileum
Lymph Node - Mesenteric
Oviduct
Salivary Glands
Stomach - Glandular
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Pancreas
Skin
Thyroid Gland

MISSING

Clitoral Gland

Thymus

OBSERVATIONS

Intestine Small
Kidney
Liver
Lung

Duodenum, Lamina Propria
Renal Tubule

Pigmentation
Pigmentation
Basophilic Focus
Congestion

Moderate
Hemosiderin, Moderate
Moderate

Note: CONGESTION TGLs = 2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 112 **TRT#:** 5 **SEX:** Female **DAY ON TEST:** 735
DOSE: .0125 G/KG 72LF **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

| | | | |
|----------------------|--------------------------|----------------------------|---------------------|
| Clitoral Gland | | Inflammation | Suppurative, Marked |
| Note: INFLAMMATION | TGLs = 1-4 | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 3-3 | | |
| Kidney | Renal Tubule | Nephropathy | Moderate |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Moderate |
| | | Hepatodiaphragmatic Nodule | |
| Note: ANOM HEPAT LOB | TGLs = 7-4 | Inflammation | Granulomatous, Mild |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 4-2 | | |
| Note: PIGMENT | TGLs = 9-3 | | |
| Mammary Gland | | Hyperplasia | Cystic, Marked |
| Note: HYPERPLASIA | TGLs = 1-4 | | |
| Mesentery | Fat | Necrosis | Focal, Marked |
| Note: NECROSIS | TGLs = 6-5 | | |
| Pancreas | Acinus | Adenoma | |
| Note: ADENOMA | TGLs = 2-3 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] | TGLs = 8-2 | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 113

TRT#: 5

SEX: Female

DAY ON TEST: 735

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Urinary Bladder

Clitoral Gland

Lymph Node - Mandibular

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland
Note: [PHEOCHROM BGN] TGLs = 3-2

Medulla

Pheochromocytoma Benign

Intestine Small
Note: PIGMENT TGLs = 2-3

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Renal Tubule

Nephropathy
Pigmentation
Basophilic Focus
Hyperplasia
Mixed Cell Focus

Mild
Hemosiderin, Moderate

Liver

Bile Duct

Hyperplasia
Mixed Cell Focus

Minimal

Note: MIXED CL FOCUS TGLs = 7-4

Lymph Node
Note: PIGMENT TGLs = 6-3

Pancreatic

Pigmentation

Marked

Pituitary Gland
Note: ADENOMA TGLs = 5-2

Pars Distalis

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 114

TRT#: 5

SEX: Female

DAY ON TEST: 735

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node - Mesenteric

Urinary Bladder

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 2-3

Kidney

Nephropathy

Mild

Renal Tubule

Pigmentation

Hemosiderin, Moderate

Lung

Congestion

Moderate

Note: CONGESTION TGLs = 1-4,1-5

Lymph Node

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 4-3

Pituitary Gland

Pars Distalis

Angiectasis

Moderate

Note: ANGIECTASIS TGLs = 3-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 115 | TRT#: 5 | SEX: Female | DAY ON TEST: 735 |
| | DOSE: .0125 G/KG 72LF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | |
|-------|-------------------------|-----------------|
| Liver | Lymph Node - Mesenteric | Urinary Bladder |
|-------|-------------------------|-----------------|

OBSERVATIONS

| | | | |
|---|--------------------------|-----------------------------|----------------------------------|
| Intestine Small Note: PIGMENT TGLs = 1-3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Minimal Hemosiderin, Moderate |
| Lymph Node Note: PIGMENT TGLs = 3-3 | Pancreatic | Pigmentation | Marked |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 116

TRT#: 5

SEX: Female

DAY ON TEST: 620

DOSE: .0125 G/KG 72LF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Bone | Bone Marrow | Clitoral Gland | Esophagus |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node - Mandibular | Nose |
| Pancreas | Parathyroid Gland | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Brain

OBSERVATIONS

| | | | |
|----------------------|--------------------------|----------------------|-------------------|
| Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 4-8 | | |
| Heart | | Leukemia Mononuclear | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 3-7 | | |
| Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Hemosiderin, Mild |
| | | Basophilic Focus | |
| Liver | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 5-3 | | |
| Lung | | Leukemia Mononuclear | |
| Lymph Node | Mesenteric | Pigmentation | Moderate |
| Mammary Gland | | Hyperplasia | Cystic, Mild |
| Ovary | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 1-6 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 2-3 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 116

TRT#: 5

SEX: Female

DAY ON TEST: 620

DOSE: .0125 G/KG 72LF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 117

TRT#: 5

SEX: Female

DAY ON TEST: 498

DOSE: .0125 G/KG 72LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|---|--------------------------|------------------|-----------------------|
| Intestine Small Note: PIGMENT TGLs = 4 | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Mild |
| Lymph Node | Mesenteric | Congestion | Moderate |
| | Mesenteric | Pigmentation | Mild |
| Note: CONGESTION TGLs = 3 | | | |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 2 | | | |
| Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| Note: [ANGIECTASIS] TGLs = 6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 118

TRT#: 5

SEX: Female

DAY ON TEST: 735

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node - Mesenteric

Pituitary Gland

Urinary Bladder

OBSERVATIONS

Clitoral Gland

Carcinoma

Note: CARCINOMA TGLs = 1-5,1-5.1

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 3-3

Kidney

Renal Tubule

Nephropathy

Minimal

Liver

Pigmentation

Hemosiderin, Mild

Lymph Node

Lumbar

Cyst

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 6-3

Note: CYST TGLs = 4-2

Spleen

Hematopoietic Cell Proliferation

Marked

Note: HEMA CELL PROL TGLs = 2-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 119

TRT#: 5

SEX: Female

DAY ON TEST: 735

DOSE: .0125 G/KG 72LF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Urinary Bladder

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT

TGLs = 3-3

Kidney

Nephropathy

Minimal

Renal Tubule

Pigmentation

Hemosiderin, Moderate

Liver

Basophilic Focus

Bile Duct

Hyperplasia

Minimal

Lymph Node

Mesenteric

Pigmentation

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA

TGLs = 2-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 120

TRT#: 5

SEX: Female

DAY ON TEST: 625

DOSE: .0125 G/KG 72LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-------------------------|---------------------------|-------------------------|
| Bone | Bone Marrow | Brain | Clitoral Gland |
| Esophagus | Heart | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Nose | Ovary | Pancreas | Parathyroid Gland |
| Salivary Glands | Skin | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---------------------------------|--------------------------|------------------------------|-----------------------|
| Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 6-8 | | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 9-7 | | | |
| Kidney | Renal Tubule | Nephropathy | Minimal |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Fatty Change | Moderate |
| | Bile Duct | Hepatodiaphragmatic Nodule | |
| | | Hyperplasia | Mild |
| Note: LEUKEMIA MONUC TGLs = 7-3 | | Leukemia Mononuclear | |
| Note: ANOM HEPAT LOB TGLs = 7-3 | | | |
| Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Leukemia Mononuclear | |
| Note: ALV BRON ADEN TGLs = 8-1 | | | |
| Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 5-8 | | | |
| Mammary Gland | | Hyperplasia | Cystic, Mild |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| | | Leukemia Mononuclear | |
| Spinal Cord | | Hemorrhage | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 120

TRT#: 5

SEX: Female

DAY ON TEST: 625

DOSE: .0125 G/KG 72LF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | | | |
|----------------------|-------------|-------------|--|----------------------|---------|
| Note: HEMORRHAGE | TGLs = 12 | | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 12 | | | | |
| Spleen | | | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 4-3 | | | | |
| Stomach | | Forestomach | | Pigmentation | Minimal |
| | | Forestomach | | Ulcer | Marked |
| Note: ULCER | TGLs = 10-7 | | | | |
| Thymus | | | | Leukemia Mononuclear | |
| Uterus | | | | Polyp Stromal | |
| Note: POLYP STROMAL | TGLs = 3-6 | | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 121

TRT#: 6

SEX: Female

DAY ON TEST: 645

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|---------------|-----------|-----------------------|
| Adrenal Gland - Cortex | Brain | Esophagus | Eye |
| Islets, Pancreatic | Ovary | Pancreas | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|-----------------------------------|--------------------------|----------------------------|---------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Heart | | Leukemia Mononuclear | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Liver | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| Note: ANOM HEPAT LOB TGLs = 10-3 | | | |
| Lung | | Leukemia Mononuclear | |
| Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | Mesenteric | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Marked |
| Note: LEUKEMIA MONUC TGLs = 8-9 | | | |
| Note: LEUKEMIA MONUC TGLs = 3-8 | | | |
| Note: LEUKEMIA MONUC TGLs = 11-8 | | | |
| Note: PIGMENT TGLs = 11-8 | | | |
| Note: PIGMENT TGLs = 8-9 | | | |
| Mesentery | Fat | Necrosis | Focal, Marked |
| Note: NECROSIS TGLs = 4-11,5-11 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 7-3.1 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 121

TRT#: 6

SEX: Female

DAY ON TEST: 645

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Leukemia Mononuclear

Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Note: HYPERPLASIA TGLs = 6-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 122

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Lymph Node - Mandibular
Spleen
Trachea

Adrenal Gland - Medulla
Intestine Large
Ovary
Stomach - Forestomach
Urinary Bladder

Brain
Islets, Pancreatic
Pancreas
Stomach - Glandular
Uterus

Esophagus
Lung
Parathyroid Gland
Thyroid Gland

OBSERVATIONS

Intestine Small
Note: PIGMENT TGLs = 3-9

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Renal Tubule

Nephropathy
Pigmentation
Basophilic Focus

Mild
Hemosiderin, Marked

Liver
Lymph Node

Mesenteric
Pancreatic

Pigmentation
Pigmentation

Marked
Marked

Note: PIGMENT TGLs = 2-9
Note: PIGMENT TGLs = 5-8

Pituitary Gland
Note: ADENOMA TGLs = 4-7

Pars Distalis

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 123

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Islets, Pancreatic
Parathyroid Gland
Stomach - Glandular

Adrenal Gland - Medulla
Lung
Pituitary Gland
Thyroid Gland

Brain
Lymph Node - Mandibular
Salivary Glands
Trachea

Esophagus
Ovary
Spleen
Urinary Bladder

OBSERVATIONS

Heart
Intestine Small
Note: PIGMENT TGLs = 3-9

Duodenum, Lamina Propria

Cardiomyopathy
Pigmentation

Moderate
Marked

Kidney

Renal Tubule

Nephropathy
Pigmentation
Basophilic Focus
Clear Cell Focus

Minimal
Hemosiderin, Marked

Liver

Lymph Node

Mesenteric
Pancreatic

Inflammation
Pigmentation
Pigmentation

Granulomatous, Mild
Marked
Marked

Note: PIGMENT TGLs = 5-8
Note: PIGMENT TGLs = 2-9

Pancreas
Stomach

Artery
Forestomach
Forestomach

Inflammation
Acanthosis
Pigmentation

Chronic Active, Marked
Marked
Marked

Note: ACANTHOSIS TGLs = 4-7

Uterus
Note: POLYP STROMAL TGLs = 1-6.1

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 124

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Islets, Pancreatic
Pancreas
Stomach - Glandular

Adrenal Gland - Medulla
Lung
Parathyroid Gland
Trachea

Brain
Lymph Node - Mandibular
Pituitary Gland
Urinary Bladder

Esophagus
Ovary
Spleen

OBSERVATIONS

Heart
Intestine Small
Note: PIGMENT TGLs = 4-9

Duodenum, Lamina Propria

Cardiomyopathy
Pigmentation

Mild
Marked

Kidney

Renal Tubule

Nephropathy
Pigmentation
Basophilic Focus

Mild
Hemosiderin, Moderate

Liver

Bile Duct

Hyperplasia
Inflammation

Minimal
Granulomatous, Minimal

Lymph Node

Mesenteric
Pancreatic

Pigmentation
Pigmentation

Marked
Marked

Note: PIGMENT TGLs = 6-8
Note: PIGMENT TGLs = 3-9

Stomach

Forestomach
Forestomach

Pigmentation
Ulcer

Mild
Mild

Thyroid Gland
Uterus

Bilateral, C Cell
Endometrium

Adenoma
Hydrometra
Hyperplasia

Mild
Mild
Cystic, Marked

Note: HYDROMETRA TGLs = 1-6
Note: HYPERPLASIA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 125

TRT#: 6

SEX: Female

DAY ON TEST: 571

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|---------------------------------|--------------------------|----------------------|---------------------|
| Adrenal Gland | Cortex | Congestion | Moderate |
| | Cortex | Degeneration | Moderate |
| Note: CONGESTION TGLs = 6-8 | | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 5-7 | | | |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 7-3 | | | |
| Lung | | Leukemia Mononuclear | |
| Lymph Node | Mesenteric | Pigmentation | Mild |
| Note: PIGMENT TGLs = 4-8 | | | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 3-3 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 127

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Islets, Pancreatic
Salivary Glands
Trachea

Brain
Lung
Spleen
Urinary Bladder

Esophagus
Lymph Node - Mandibular
Stomach - Forestomach
Uterus

Heart
Ovary
Stomach - Glandular

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland
Intestine Small
Note: PIGMENT TGLs = 5-9
Kidney

Cortex
Duodenum, Lamina Propria

Hyperplasia
Pigmentation

Focal, Mild
Marked

Liver

Renal Tubule
Renal Tubule

Hyperplasia
Nephropathy
Pigmentation
Basophilic Focus

Focal, Mild
Moderate
Hemosiderin, Marked

Lymph Node

Bile Duct
Mesenteric
Pancreatic

Hyperplasia
Pigmentation
Pigmentation

Minimal
Marked
Marked

Note: PIGMENT TGLs = 4-9
Note: PIGMENT TGLs = 7-8

Mammary Gland
Note: FIBROADENOMA TGLs = 1-10,1-10.1

Fibroadenoma

Pancreas
Pituitary Gland
Note: ADENOMA TGLs = 6-7

Acinus
Pars Distalis

Atrophy
Adenoma

Moderate

Thyroid Gland
Note: CARCINOMA TGLs = 2-7

Follicular Cel

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 128

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Islets, Pancreatic
Pancreas
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Lung
Parathyroid Gland
Thyroid Gland

Brain
Lymph Node - Mandibular
Spleen
Trachea

Esophagus
Ovary
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Intestine Small
Note: PIGMENT TGLs = 2-9

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Renal Tubule

Nephropathy

Minimal

Liver

Bile Duct

Pigmentation

Hemosiderin, Marked

Lymph Node

Mesenteric

Basophilic Focus

Minimal

Pancreatic

Pigmentation

Marked

Pigmentation

Mild

Note: PIGMENT TGLs = 1-9

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 4-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 129

TRT#: 6

SEX: Female

DAY ON TEST: 379

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|--|---------------------------|----------------------------|-----------------------|
| Intestine Small Note: PIGMENT TGLs = 6 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | | Fatty Change | Mild |
| Lymph Node Note: CONGESTION TGLs = 5 Note: PIGMENT TGLs = 10 | Mediastinal Mesenteric | Congestion Pigmentation | Mild Moderate |
| Mesentery Note: INFLAMMATION TGLs = 3 | | Inflammation | Chronic, Moderate |
| Nose | Nasolacrim Dct | Inflammation | Chronic, Mild |
| Pituitary Gland Note: CYST TGLs = 11 | Pars Distalis | Cyst | |
| Skeletal Muscle Note: SARCOMA TGLs = 2 | Abdominal | Sarcoma | |
| Stomach Note: EROSION TGLs = 8 | Glandular | Erosion | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 130

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|-----------------------|---------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Islets, Pancreatic | Lymph Node - Mandibular | Ovary | Pancreas |
| Parathyroid Gland | Pituitary Gland | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------|--------------------------|----------------------|---------------------|
| Adrenal Gland | Cortex | Leukemia Mononuclear | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Marked |
| Note: NEPHROPATHY TGLs = 6-4 | | | |
| Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| Lung | Mesenteric | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Pigmentation | Marked |
| | | Pigmentation | Marked |
| Note: PIGMENT TGLs = 5-9 | | | |
| Mammary Gland | | Fibroadenoma | Multiple |
| Note: FIBROADENOMA TGLs = 2-10 | | | |
| Note: FIBROADENOMA TGLs = 1-11 | | | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 4-3 | | | |
| Uterus | | Polyp Stromal | |
| Note: POLYP STROMAL TGLs = 3-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 131

TRT#: 6

SEX: Female

DAY ON TEST: 711

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Lung
Parathyroid Gland
Stomach - Glandular
Uterus

Brain
Lymph Node - Mandibular
Salivary Glands
Thyroid Gland

Esophagus
Ovary
Spleen
Trachea

OBSERVATIONS

Heart
Intestine Small
 Note: PIGMENT TGLs = 3-9
Kidney

Duodenum, Lamina Propria

Cardiomyopathy
Pigmentation

Minimal
Marked

Liver
Lymph Node
 Note: PIGMENT TGLs = 2-9
 Note: PIGMENT TGLs = 5-8

Renal Tubule

Nephropathy
Pigmentation
Basophilic Focus

Minimal
Hemosiderin, Marked

Mammary Gland
 Note: FIBROADENOMA TGLs = 1-10
Pituitary Gland
 Note: ADENOMA TGLs = 4-7

Mesenteric
Pancreatic

Pigmentation
Pigmentation

Marked
Marked

Fibroadenoma

Pars Distalis

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 132

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Lung
Spleen
Trachea

Adrenal Gland - Medulla
Intestine Large - Colon
Lymph Node - Mandibular
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Rectum
Ovary
Stomach - Glandular
Uterus

Esophagus
Islets, Pancreatic
Salivary Glands
Thyroid Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Heart
Intestine Small
Note: PIGMENT TGLs = 1-9
Kidney

Duodenum, Lamina Propria

Cardiomyopathy
Pigmentation

Mild
Marked

Liver
Lymph Node
Note: PIGMENT TGLs = 2-9
Pancreas
Pituitary Gland
Note: ADENOMA TGLs = 3-7

Renal Tubule

Bile Duct

Mesenteric

Duct
Pars Distalis

Nephropathy
Pigmentation
Basophilic Focus
Hyperplasia
Inflammation
Pigmentation

Cyst
Adenoma

Moderate
Hemosiderin, Marked
Mild
Granulomatous, Mild
Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 133 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 730
DOSE: .025G/KG 72HF **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-----------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Ovary | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|--------------------------|---|-----------------------------|
| Intestine Small Note: PIGMENT TGLs = 3-9 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Mild Hemosiderin, Marked |
| Liver [Hyperplasia TGLs = 5-3] | Bile Duct | Basophilic Focus Hepatodiaphragmatic Nodule Hyperplasia | Minimal |
| Lymph Node Note: PIGMENT TGLs = 4-9 | Mesenteric | Pigmentation | Marked |
| Pancreas | Acinus | Hyperplasia | Focal, Mild |
| Pituitary Gland Note: ANGIECTASIS TGLs = 6-7 | Pars Distalis | Angiectasis | Marked |
| Stomach Note: HYPERPLASIA TGLs = 7-7 | Glandular | Hyperplasia | Focal, Moderate |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 134

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Islets, Pancreatic
Parathyroid Gland
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Lung
Salivary Glands
Thyroid Gland

Brain
Lymph Node - Mandibular
Spleen
Trachea

Esophagus
Pancreas
Stomach - Forestomach
Urinary Bladder

MISSING

Ovary

OBSERVATIONS

Heart
Intestine Small
 Note: PIGMENT TGLs = 6-9
Kidney
Liver
Lymph Node
 Note: PIGMENT TGLs = 5-9
Mammary Gland
 Note: FIBROADENOMA TGLs = 2-10
 Note: HYPERPLASIA TGLs = 3-10
Pituitary Gland
 Note: ADENOMA TGLs = 4-7

Duodenum, Lamina Propria
Renal Tubule
Mesenteric
Pars Distalis

Cardiomyopathy
Pigmentation
Nephropathy
Pigmentation
Basophilic Focus
Pigmentation
Fibroadenoma
Hyperplasia
Adenoma

Minimal
Marked
Mild
Hemosiderin, Marked
Marked
Cystic, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 135

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-----------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Ovary | Pancreas | Salivary Glands | Spleen |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|---|--------------------------|------------------|---------------------|
| Intestine Small Note: PIGMENT TGLs = 3-9 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Hyperplasia | Focal, Minimal |
| | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 2-9 | | | |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 1-10 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Stomach | Forestomach | Acanthosis | Mild |
| | Forestomach | Pigmentation | Mild |
| Note: ACANTHOSIS TGLs = 4-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 136

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Ovary
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Intestine Large - Colon
Pancreas
Stomach - Glandular
Uterus

Brain
Islets, Pancreatic
Pituitary Gland
Thyroid Gland

Esophagus
Lung
Spleen
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Intestine Small
Note: PIGMENT TGLs = 3-9

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Renal Tubule

Nephropathy
Pigmentation

Mild
Hemosiderin, Marked

Liver

Bile Duct

Basophilic Focus
Hyperplasia
Inflammation

Minimal
Granulomatous, Mild

Lymph Node

Mandibular
Mesenteric
Pancreatic

Pigmentation
Pigmentation
Pigmentation

Mild
Moderate
Marked

Note: PIGMENT TGLs = 5-9
Note: PIGMENT TGLs = 6-8

Mammary Gland
Note: FIBROADENOMA TGLs = 1-10

Fibroadenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 137

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|-----------|-----------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|---------------------------------|--------------------------|----------------------------|---------------------|
| Adrenal Gland | Cortex | Vacuolization Cytoplasmic | Minimal |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 2-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Minimal |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| Note: ANOM HEPAT LOB TGLs = 3-3 | | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 1-9 | | | |
| Note: PIGMENT TGLs = 4-8 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 138

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|---------------------|---------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Islets, Pancreatic | Lymph Node - Mandibular | Ovary | Pancreas |
| Parathyroid Gland | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | | |

OBSERVATIONS

| | | | |
|----------------------|--------------------------|----------------------|---------------------|
| Heart | | Leukemia Mononuclear | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 4-9 | | |
| Kidney | Renal Tubule | Nephropathy | Minimal |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| Lung | Mesenteric | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Pigmentation | Marked |
| | | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 6-8 | | |
| Note: PIGMENT | TGLs = 5-9 | | |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA | TGLs = 1-10 | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 3-3 | | |
| Uterus | | Polyp Stromal | |
| Note: POLYP STROMAL | TGLs = 2-6 | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 139

TRT#: 6

SEX: Female

DAY ON TEST: 653

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------|---------------------|--------------------|-------------------------|
| Brain | Esophagus | Islets, Pancreatic | Lymph Node - Mandibular |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Stomach - Forestomach | Stomach - Glandular | Thyroid Gland | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|----------------------|---|----------------------|-----------------------|
| Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| Heart | | Leukemia Mononuclear | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 7-9 | | |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2-1,2-2] | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 5-9 | | |
| Note: PIGMENT | TGLs = 6-8 | | |
| Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 3-3 | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 140

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------|-------------------------|-----------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Ovary |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|--------------------------------------|--------------------------|--------------------|----------------------|
| Adrenal Gland | Cortex | Degeneration | Mild |
| | Cortex | Hyperplasia | Mild |
| Clitoral Gland | | Inflammation | Suppurative, Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | | Nephropathy | Mild |
| | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Pancreas | Acinus | Atrophy | Mild |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| Skin | | Basal Cell Adenoma | |
| Note: [BASAL CEL ADEN] TGLs = 1-10 | | | |
| Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|-----------------------|----------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 141 | TRT#: 6 | SEX: Female | DAY ON TEST: 730 |
| | DOSE: .025G/KG 72HF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------------|-----------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Islets, Pancreatic | Lymph Node - Mandibular | Ovary |
| Pancreas | Parathyroid Gland | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|--|--------------------------|------------------------------|-----------------------------------|
| Intestine Small Note: PIGMENT TGLs = 2-9 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Moderate Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| Lung [Adenomatosis TGLS = 6-1] | | Adenomatosis | Mild |
| Lymph Node Note: PIGMENT TGLs = 3-9 Note: PIGMENT TGLs = 5-8 | Mesenteric Pancreatic | Pigmentation Pigmentation | Moderate Marked |
| Pituitary Gland Note: ADENOMA TGLs = 4-7 | Pars Distalis | Adenoma | |
| Thyroid Gland | C Cell | Hyperplasia | Mild |
| Uterus Note: POLYP STROMAL TGLs = 1-6,1-6.1 | | Polyp Stromal | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 142

TRT#: 6

SEX: Female

DAY ON TEST: 411

DOSE: .025G/KG 72HF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|---|--------------------------|------------------|---------------------|
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| Note: IS JUST AN ABERRENT LOBE FORMATION. | | | |
| Note: LEFT LATERAL LOBE IS NORMAL HISTOLOGICALLY. TGL 3 | | | |
| Lung | | Congestion | Moderate |
| [Congestion TGLS = 4] | | | |
| Lymph Node | Pancreatic | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 5 | | | |
| Uterus | | Polyp Stromal | |
| Note: POLYP STROMAL TGLs = 6 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 144

TRT#: 6

SEX: Female

DAY ON TEST: 570

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|---------------------------|---------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone | Bone Marrow |
| Brain | Clitoral Gland | Esophagus | Heart |
| Intestine Large - Cecum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Mammary Gland | Parathyroid Gland |
| Salivary Glands | Skin | Stomach - Forestomach | Stomach - Glandular |
| Thymus | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

MISSING

Nose

OBSERVATIONS

| | | | |
|---|--------------------------|----------------------------------|-----------------------|
| Intestine Large | Colon | Mesothelioma Malignant | |
| | Rectum | Mesothelioma Malignant | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 7-7 | | | |
| Kidney | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Liver | | Fatty Change | Marked |
| | | Leukemia Mononuclear | |
| [Fatty Change TGLS = 8-3] | | | |
| Lymph Node | Mediastinal | Pigmentation | Hemosiderin, Moderate |
| | Mesenteric | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 3-8 | | | |
| Note: PIGMENT TGLs = 6-2 | | | |
| Ovary | | Mesothelioma Malignant | |
| Pancreas | | Mesothelioma Malignant | |
| Note: MESOTHELIO MAL TGLs = 5-7,5-9,5-13 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 9-8 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Marked |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 144

TRT#: 6

SEX: Female

DAY ON TEST: 570

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMA CELL PROL TGLs = 4-3
[Hematopoietic Cell Proliferation TGLS = 4-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 145

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|-----------|-----------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Ovary | Pancreas |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|------------------|--------------------------|------------------|---------------------|
| Adrenal Gland | Cortex | Hypertrophy | Minimal |
| Heart | | Cardiomyopathy | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 2-9 | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hematocyst | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Granulomatous, Mild |
| Note: HEMATOCYST | TGLs = 5-3 | | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT | TGLs = 3-9 | | |
| Note: PIGMENT | TGLs = 6-8 | | |
| Pituitary Gland | Pars Distalis | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|-----------------------|----------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 146 | TRT#: 6 | SEX: Female | DAY ON TEST: 730 |
| | DOSE: .025G/KG 72HF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------|-------------------|-------------------------|
| Adrenal Gland - Cortex | Brain | Ear | Esophagus |
| Heart | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Lymph Node - Mesenteric | Ovary | Parathyroid Gland | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|---------------------------------|--------------------------|------------------|-----------------------|
| Adrenal Gland | Medulla | Hyperplasia | Mild |
| Eye | Lens | Mineralization | Moderate |
| Note: MINERALIZATION TGLs = 1-9 | | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 2-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Moderate |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| Pancreas | Acinus | Atrophy | Minimal |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Thyroid Gland | C Cell | Carcinoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|-----------------------|----------------------------|-----------------------|-------------------------|
| ANIMAL ID: 148 | TRT#: 6 | SEX: Female | DAY ON TEST: 687 |
| | DOSE: .025G/KG 72HF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-------------------------|---------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Esophagus | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Lymph Node - Mesenteric | Ovary |
| Parathyroid Gland | Salivary Glands | Spleen | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|---------------------------------|--------------------------|------------------|-------------------------------------|
| Brain | | Carcinoma | Metastatic (Uncertain Primary Site) |
| Heart | | Cardiomyopathy | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 2-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Marked |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| Pancreas | Acinus | Hyperplasia | Focal, Moderate |
| Pituitary Gland | Pars Distalis | Carcinoma | |
| Note: CARCINOMA TGLs = 3-7 | | | |
| Stomach | Forestomach | Acanthosis | Mild |
| | Forestomach | Pigmentation | Minimal |
| Note: [ACANTHOSIS] TGLs = 4-7 | | | |
| Note: ACANTHOSIS TGLs = 5-7.1 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 150

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Islets, Pancreatic
Pancreas
Stomach - Forestomach

Adrenal Gland - Medulla
Lung
Parathyroid Gland
Stomach - Glandular

Brain
Lymph Node - Mandibular
Pituitary Gland
Trachea

Esophagus
Ovary
Salivary Glands
Urinary Bladder

OBSERVATIONS

Heart
Intestine Small
Note: PIGMENT TGLs = 3-9

Duodenum, Lamina Propria

Cardiomyopathy
Pigmentation

Mild
Marked

Kidney
Liver

Renal Tubule

Nephropathy
Pigmentation
Basophilic Focus
Clear Cell Focus

Mild
Hemosiderin, Marked

Lymph Node
Note: PIGMENT TGLs = 4-9
Note: PIGMENT TGLs = 5-8

Mesenteric
Pancreatic

Hyperplasia
Leukemia Mononuclear
Pigmentation
Pigmentation

Minimal
Marked
Marked

Spleen
Thyroid Gland
Uterus
Note: POLYP STROMAL TGLs = 2-6.1
Note: HEMORRHAGE TGLs = 1-6

C Cell
Follicular Cel
Lumen

Leukemia Mononuclear
Adenoma
Hyperplasia
Hemorrhage
Polyp Stromal

Mild
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 152

TRT#: 6

SEX: Female

DAY ON TEST: 695

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Islets, Pancreatic
Pancreas
Trachea

Adrenal Gland - Medulla
Lung
Pituitary Gland
Urinary Bladder

Brain
Lymph Node - Mandibular
Spleen
Uterus

Esophagus
Ovary
Stomach - Glandular

MISSING

Parathyroid Gland

OBSERVATIONS

Heart
Intestine Small
Note: PIGMENT TGLs = 5-9
Kidney

Duodenum, Lamina Propria

Cardiomyopathy
Pigmentation

Minimal
Marked

Liver
Lymph Node
Note: PIGMENT TGLs = 4-9
Note: PIGMENT TGLs = 6-8

Renal Tubule
Mesenteric
Pancreatic

Nephropathy
Pigmentation
Basophilic Focus
Pigmentation
Pigmentation

Minimal
Hemosiderin, Marked
Moderate
Marked

Mammary Gland
Note: FIBROADENOMA TGLs = 2-10
Stomach
Thyroid Gland
Note: [ADENOMA] TGLs = 3

Forestomach
Follicular Cel

Fibroadenoma
Pigmentation
Adenoma

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 153

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Islets, Pancreatic
Parathyroid Gland
Trachea

Adrenal Gland - Medulla
Lymph Node - Mandibular
Spleen
Urinary Bladder

Brain
Ovary
Stomach - Forestomach

Esophagus
Pancreas
Stomach - Glandular

OBSERVATIONS

Heart

Cardiomyopathy

Mild

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Nephropathy

Moderate

Renal Tubule

Pigmentation

Hemosiderin, Marked

Liver

Basophilic Focus

Fatty Change

Moderate

Bile Duct

Hyperplasia

Minimal

Lung

Congestion

Mild

[Congestion TGLS = 2-1,2-2]

Lymph Node

Mesenteric

Pigmentation

Moderate

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA

TGLs = 3-7

Thyroid Gland

C Cell

Adenoma

Uterus

Polyp Stromal

Note: POLYP STROMAL

TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 154

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Ovary
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Islets, Pancreatic
Parathyroid Gland
Thyroid Gland

Brain
Lung
Salivary Glands
Trachea

Esophagus
Lymph Node - Mandibular
Spleen
Urinary Bladder

OBSERVATIONS

Intestine Small
Note: PIGMENT TGLs = 5-9
Kidney
Liver
Lymph Node
Mammary Gland
Note: [FIBROADENOMA] TGLs = 3-9
Pancreas
Pituitary Gland
Note: [ADENOMA] TGLs = 7-7
Stomach

Duodenum, Lamina Propria
Renal Tubule
Bile Duct
Mesenteric
Acinus
Pars Distalis
Forestomach

Pigmentation
Nephropathy
Pigmentation
Hyperplasia
Pigmentation
Fibroadenoma
Hyperplasia
Adenoma
Ulcer

Marked
Marked
Hemosiderin, Marked
Mild
Mild
Focal, Moderate
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 155

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Brain

Esophagus

Heart

Islets, Pancreatic

Lung

Ovary

Pancreas

Parathyroid Gland

Spleen

Stomach - Glandular

Trachea

Urinary Bladder

Uterus

OBSERVATIONS

Intestine Small

Duodenum, Lamina Propria

Pigmentation

Marked

Note: PIGMENT TGLs = 2-9

Kidney

Renal Tubule

Nephropathy

Moderate

Pigmentation

Hemosiderin, Marked

Liver

Basophilic Focus

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Mild

[Hepatodiaphragmatic Nodule TGLS = 1-3]

Lymph Node

Mesenteric

Pigmentation

Marked

Pancreatic

Pigmentation

Marked

Note: PIGMENT TGLs = 7-10

Note: PIGMENT TGLs = 3-9

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Note: CYST TGLs = 6-7

Note: ADENOMA TGLs = 5-7

Stomach

Forestomach

Acanthosis

Moderate

Forestomach

Pigmentation

Mild

Note: [ACANTHOSIS] TGLs = 4-7.1

Thyroid Gland

C Cell

Adenoma

Follicular Cel

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 156

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-----------------|-------------------------|---------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Ovary |
| Parathyroid Gland | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Trachea | Urinary Bladder | Uterus | |

MISSING

Intestine Small - Jejunum

OBSERVATIONS

| | | | |
|------------------------------|--------------------------|------------------|-------------------------|
| Adrenal Gland | Cortex | Degeneration | Marked |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 1-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Minimal |
| | | Inflammation | Granulomatous, Moderate |
| | | Necrosis | Focal, Mild |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| Note: PIGMENT TGLs = 2-9 | | | |
| Pancreas | Duct | Hyperplasia | Moderate |
| | Acinus | Hypertrophy | Focal, Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 3-7 | | | |
| Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 157

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Islets, Pancreatic
Ovary
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Lung
Parathyroid Gland
Stomach - Glandular
Uterus

Esophagus
Lymph Node - Mandibular
Salivary Glands
Thyroid Gland

Heart
Lymph Node - Mesenteric
Spleen
Trachea

OBSERVATIONS

Brain
Intestine Small
 Note: PIGMENT TGLs = 3-9
Kidney

Liver

 [Hyperplasia TGLs = 5-3.1]
Pancreas
Pituitary Gland
 Note: CARCINOMA TGLs = 6-7
Skin

 Note: ABSCESS TGLs = 1-10
 Note: ADENOMA TGLs = 2-10

Duodenum, Lamina Propria

Renal Tubule

Bile Duct

Acinus
Pars Distalis

Face
Sebaceous GI

Carcinoma
Pigmentation

Nephropathy
Pigmentation
Basophilic Focus
Hepatodiaphragmatic Nodule
Hyperplasia

Atrophy
Carcinoma

Abscess
Adenoma

Metastatic (Uncertain Primary Site)
Marked

Moderate
Hemosiderin, Marked

Minimal

Minimal

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 159

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------|-----------------------|---------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Islets, Pancreatic |
| Lung | Ovary | Pancreas | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

MISSING

Lymph Node - Mandibular

OBSERVATIONS

| | | | |
|------------------------------|--------------------------|------------------|------------------------|
| Adrenal Gland | Cortex | Degeneration | Focal, Mild |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 2-9 | | | |
| Kidney | Renal Tubule | Hyperplasia | Focal, Mild |
| | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Granulomatous, Minimal |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 6-8 | | | |
| Note: PIGMENT TGLs = 3-9 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 4-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 160

TRT#: 6

SEX: Female

DAY ON TEST: 282

DOSE: .025G/KG 72HF

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Small - Ileum
Liver
Nose
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Small - Jejunum
Lung
Ovary
Skin
Thyroid Gland

Bone
Esophagus
Islets, Pancreatic
Lymph Node - Mandibular
Pancreas
Spleen
Trachea

Bone Marrow
Intestine Large - Cecum
Kidney
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Glandular
Urinary Bladder

MISSING

Intestine Large - Rectum

Mammary Gland

Parathyroid Gland

OBSERVATIONS

Heart
Intestine Large
Intestine Small
Stomach

Colon
Duodenum, Lamina Propria
Forestomach

Inflammation
Parasite Metazoan
Pigmentation
Pigmentation

Chronic, Minimal
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 162

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Ovary
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Islets, Pancreatic
Pancreas
Stomach - Glandular
Uterus

Brain
Lung
Parathyroid Gland
Thyroid Gland

Esophagus
Lymph Node - Mandibular
Spleen
Trachea

OBSERVATIONS

Clitoral Gland
Note: ADENOMA TGLs = 2-9

Intestine Small
Note: PIGMENT TGLs = 4-9

Kidney

Liver

Lymph Node
Note: PIGMENT TGLs = 3-9
Note: PIGMENT TGLs = 5-8

Pituitary Gland

Duodenum, Lamina Propria

Renal Tubule

Mesenteric
Pancreatic

Pars Distalis

Adenoma

Pigmentation

Nephropathy
Pigmentation
Basophilic Focus
Inflammation
Pigmentation
Pigmentation

Adenoma

Marked

Moderate
Hemosiderin, Marked

Granulomatous, Mild
Marked
Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 164

TRT#: 6

SEX: Female

DAY ON TEST: 681

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|--------------------|-----------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Ear |
| Esophagus | Heart | Islets, Pancreatic | Lung |
| Lymph Node - Mandibular | Ovary | Pancreas | Stomach - Forestomach |
| Thyroid Gland | Trachea | Urinary Bladder | |

MISSING

| | |
|-------------------|---------------------|
| Parathyroid Gland | Stomach - Glandular |
|-------------------|---------------------|

OBSERVATIONS

| | | | |
|--|--------------------------|---|-----------------------------|
| Intestine Small Note: PIGMENT TGLs = 5-9 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Mild Hemosiderin, Marked |
| Liver | Bile Duct | Basophilic Focus Fatty Change Hyperplasia Leukemia Mononuclear | Mild Minimal |
| [Hyperplasia TGLS = 6-3] | | | |
| Lymph Node Note: PIGMENT TGLs = 4-9 Note: PIGMENT TGLs = 9-8 | Mesenteric Pancreatic | Pigmentation Pigmentation | Marked Marked |
| Pituitary Gland Note: [ADENOMA] TGLs = 7-7.1,8-7.1 | Pars Distalis | Adenoma | |
| Spleen Note: LEUKEMIA MONUC TGLs = 3-3 | | Leukemia Mononuclear | |
| Uterus Note: POLYP STROMAL TGLs = 2-6 | | Polyp Stromal | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 165

TRT#: 6

SEX: Female

DAY ON TEST: 669

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-----------------|-------------------------|---------------|
| Adrenal Gland - Cortex | Brain | Esophagus | Heart |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Ovary |
| Pancreas | Spleen | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

MISSING

| | |
|-------------------------|-------------------|
| Adrenal Gland - Medulla | Parathyroid Gland |
|-------------------------|-------------------|

OBSERVATIONS

| | | | |
|-----------------------------------|--------------------------|--------------|-----------------------|
| Intestine Small | Duodenum, Lamina Propria | Inflammation | Acute, Marked |
| | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 4-9 | | | |
| Kidney | Renal Tubule | Hyperplasia | Focal, Minimal |
| | | Nephropathy | Marked |
| | Renal Tubule | Pigmentation | Hemosiderin, Moderate |
| Note: NEPHROPATHY TGLs = 5-4 | | | |
| Liver | | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | Mesenteric | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Marked |
| | Pars Distalis | Carcinoma | |
| Pituitary Gland | | | |
| Note: CARCINOMA TGLs = 6-7 | | | |
| Stomach | Forestomach | Acanthosis | Moderate |
| Note: ACANTHOSIS TGLs = 8-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 166

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|-----------------------|---------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Ovary | Pancreas |
| Parathyroid Gland | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | Uterus |

OBSERVATIONS

| | | | |
|----------------------------------|--------------------------|------------------|---------------------|
| Adrenal Gland | Cortex | Degeneration | Marked |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 4-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Minimal |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 6-8 | | | |
| Note: PIGMENT TGLs = 3-9 | | | |
| Mammary Gland | | Fibroadenoma | Multiple |
| Note: FIBROADENOMA TGLs = 1-10 | | | |
| Note: FIBROADENOMA TGLs = 2-11 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |
| Note: [HYPERPLASIA] TGLs = 5-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 2,4-Diaminophenol dihydrochloride

CAS Number: 137-09-7

Date Report Requested: 10/16/2014

Time Report Requested: 14:58:22

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 167

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Ovary
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Islets, Pancreatic
Pancreas
Stomach - Glandular
Uterus

Brain
Lung
Parathyroid Gland
Thyroid Gland

Esophagus
Lymph Node - Mandibular
Spleen
Trachea

OBSERVATIONS

Intestine Small
Note: PIGMENT TGLs = 2-9

Duodenum, Lamina Propria

Pigmentation

Marked

Kidney

Renal Tubule

Nephropathy
Pigmentation

Marked
Hemosiderin, Marked

Liver

Bile Duct

Basophilic Focus
Hyperplasia
Inflammation
Mixed Cell Focus

Mild
Granulomatous, Minimal

Lymph Node

Mesenteric
Pancreatic

Pigmentation
Pigmentation

Marked
Marked

Note: PIGMENT TGLs = 3-9
Note: PIGMENT TGLs = 5-8

Mammary Gland

Note: FIBROADENOMA TGLs = 1-10

Pars Distalis

Fibroadenoma

Pituitary Gland

Note: ADENOMA TGLs = 4-7

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 168 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 688
DOSE: .025G/KG 72HF **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|-------------------------|-----------|-------------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Heart |
| Islets, Pancreatic | Lymph Node - Mandibular | Ovary | Parathyroid Gland |
| Salivary Glands | Thyroid Gland | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|--------------------------------------|--------------------------|----------------------|-----------------------|
| Adrenal Gland | Cortex | Leukemia Mononuclear | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 7-9 | | | |
| Kidney | Renal Tubule | Hyperplasia | Focal, Minimal |
| | | Leukemia Mononuclear | |
| | Renal Tubule | Nephropathy | Moderate |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | Bile Duct | Fatty Change | Marked |
| | | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| [Fatty Change TGLS = 9-3] | | | |
| Lung | Interstitium | Inflammation | Chronic, Moderate |
| [Inflammation TGLS = 3-1,3-2] | | | |
| Lymph Node | Mesenteric | Pigmentation | Moderate |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 11-8 | | | |
| Note: PIGMENT TGLs = 6-9 | | | |
| Pancreas | Acinus | Hyperplasia | Focal, Mild |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA TGLs = 10-7 | | | |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 4-3 | | | |
| Stomach | Glandular | Edema | Moderate |
| | Forestomach | Pigmentation | Minimal |
| | Forestomach | Ulcer | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 168

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: EDEMA TGLs = 12

Note: EDEMA TGLs = 13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 169 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 676
DOSE: .025G/KG 72HF **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-----------------------|-------------------------|---------|
| Adrenal Gland - Cortex | Brain | Esophagus | Heart |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Ovary |
| Pancreas | Stomach - Forestomach | Stomach - Glandular | Trachea |
| Urinary Bladder | | | |

MISSING

| | |
|-------------------------|-------------------|
| Adrenal Gland - Medulla | Parathyroid Gland |
|-------------------------|-------------------|

OBSERVATIONS

| | | | |
|-------------------------------------|--------------------------|----------------------------------|------------------------|
| Clitoral Gland | | Carcinoma | |
| Note: CARCINOMA TGLs = 1-10 | | | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 5-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Moderate |
| Liver | | Basophilic Focus | |
| | | Inflammation | Granulomatous, Minimal |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 7-8 | | | |
| Note: PIGMENT TGLs = 4-9 | | | |
| Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |
| Note: HYPERPLASIA TGLs = 6-7 | | | |
| Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Thyroid Gland | C Cell | Carcinoma | |
| Note: [CARCINOMA] TGLs = 2-7 | | | |
| Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| Note: HYPERPLASIA TGLs = 3-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|-----------------------|----------------------------|-----------------------|-------------------------|
| ANIMAL ID: 170 | TRT#: 6 | SEX: Female | DAY ON TEST: 645 |
| | DOSE: .025G/KG 72HF | DISP: Moribund | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-----------------|-----------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Islets, Pancreatic | Lung | Ovary |
| Pancreas | Parathyroid Gland | Pituitary Gland | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |
| Uterus | | | |

OBSERVATIONS

| | | | |
|--|--------------------------|-----------------------------|--------------------------------|
| Intestine Small Note: PIGMENT TGLs = 8-9 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Minimal Hemosiderin, Marked |
| Liver | Bile Duct | Basophilic Focus | |
| Lymph Node | Renal | Hyperplasia | Mild |
| | Mesenteric | Congestion | Marked |
| | Pancreatic | Pigmentation | Marked |
| | | Pigmentation | Marked |
| Note: PIGMENT TGLs = 5-9 Note: CONGESTION TGLs = 7-3 [Congestion TGLS = 4-9] | | | |
| Thyroid Gland Note: CARCINOMA TGLs = 1-7.1,2-7.1 | C Cell | Carcinoma | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 171

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|---------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Ovary | Pancreas | Parathyroid Gland | Salivary Glands |
| Spleen | Stomach - Forestomach | Stomach - Glandular | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|---|--------------------------|-----------------------------|---------------------------------|
| Intestine Small Note: PIGMENT TGLs = 1-9 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Moderate Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| Lymph Node Note: PIGMENT TGLs = 2-9 | Mesenteric | Pigmentation | Marked |
| Pituitary Gland Note: [ADENOMA] TGLs = 3-7 | Pars Distalis | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 173

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|---------------------|--------------------|
| Adrenal Gland - Cortex | Brain | Esophagus | Islets, Pancreatic |
| Lung | Lymph Node - Mandibular | Ovary | Parathyroid Gland |
| Salivary Glands | Spleen | Stomach - Glandular | Trachea |
| Urinary Bladder | Uterus | | |

OBSERVATIONS

| | | | |
|--------------------------------|--------------------------|-------------------------|---------------------|
| Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Heart | | Cardiomyopathy | Minimal |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 3-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Moderate |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 5-8 | | | |
| Note: PIGMENT TGLs = 2-9 | | | |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 1-10 | | | |
| Pancreas | Acinus | Hyperplasia | Focal, Moderate |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Note: [ADENOMA] TGLs = 4-7 | | | |
| Stomach | Forestomach | Acanthosis | Moderate |
| | Forestomach | Pigmentation | Minimal |
| Note: ACANTHOSIS TGLs = 6-7.1 | | | |
| Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 174

TRT#: 6

SEX: Female

DAY ON TEST: 723

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------|-----------------------|-------------------------|
| Brain | Esophagus | Islets, Pancreatic | Lymph Node - Mandibular |
| Parathyroid Gland | Pituitary Gland | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|----------------------------------|--------------------------|-------------------------|--------------------------|
| Adrenal Gland | Cortex | Hyperplasia | Mild |
| | Medulla | Leukemia Mononuclear | |
| | Medulla | Pheochromocytoma Benign | |
| Note: PHEOCHROM BGN TGLs = 8-7 | | | |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Marked |
| Note: PIGMENT TGLs = 7-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Moderate |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | Bile Duct | Fatty Change | Moderate |
| | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 10-3 | | | |
| Lung | | Leukemia Mononuclear | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Marked |
| Note: PIGMENT TGLs = 11-9 | | | |
| Note: PIGMENT TGLs = 6-9 | | | |
| Ovary | Periovarn Tiss | Leukemia Mononuclear | |
| Pancreas | | Inflammation | Chronic, Diffuse, Marked |
| Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 5-3 | | | |
| Uterus | Wall | Leukemia Mononuclear | |
| | | Necrosis | Marked |
| Note: NECROSIS TGLs = 4-6 | | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|-----------------------|----------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 175 | TRT#: 6 | SEX: Female | DAY ON TEST: 731 |
| | DOSE: .025G/KG 72HF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|---------|-----------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Islets, Pancreatic | Lung | Ovary |
| Pancreas | Parathyroid Gland | Spleen | Stomach - Forestomach |
| Stomach - Glandular | Thyroid Gland | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|--|--------------------------|------------------------------|--------------------------------|
| Intestine Small Note: PIGMENT TGLs = 3-9 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Minimal Hemosiderin, Marked |
| Liver | Mesenteric | Basophilic Focus | Moderate |
| Lymph Node Note: PIGMENT TGLs = 4-9 Note: PIGMENT TGLs = 5-8 | Pancreatic | Pigmentation Pigmentation | Marked |
| Mesentery Note: NECROSIS TGLs = 2-10 | Fat | Necrosis | Focal, Moderate |
| Pituitary Gland | | Cyst | |
| Uterus | | Endometriosis | Marked |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 176

TRT#: 6

SEX: Female

DAY ON TEST: 498

DOSE: .025G/KG 72HF

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

OBSERVATIONS

| | | | |
|---|---------------------------|----------------------------------|----------------------------------|
| Intestine Small Note: PIGMENT TGLs = 3 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Moderate Hemosiderin, Marked |
| Liver | | Basophilic Focus Fatty Change | Mild |
| Lymph Node | Mediastinal Mesenteric | Pigmentation Pigmentation | Hemosiderin, Moderate Minimal |
| Pituitary Gland Note: [ADENOMA] TGLs = 4 | Pars Distalis | Adenoma | |
| Stomach | Forestomach | Acanthosis | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 177

TRT#: 6

SEX: Female

DAY ON TEST: 526

DOSE: .025G/KG 72HF

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone | Bone Marrow | Brain |
| Clitoral Gland | Esophagus | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic |
| Mammary Gland | Nose | Ovary | Oviduct |
| Parathyroid Gland | Pituitary Gland | Salivary Glands | Skin |
| Stomach - Forestomach | Stomach - Glandular | Thymus | Thyroid Gland |
| Trachea | Urinary Bladder | Uterus | |

OBSERVATIONS

| | | | |
|-----------------------------------|--------------------------|----------------------|---------------------|
| Adrenal Gland | Cortex | Necrosis | Moderate |
| Heart | | Leukemia Mononuclear | |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 3 | | | |
| Kidney | Renal Tubule | Leukemia Mononuclear | |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | | Fatty Change | Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 5 | | | |
| Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1] | | | |
| Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Mesenteric | Pigmentation | Marked |
| Note: PIGMENT TGLs = 2 | | | |
| Note: LEUKEMIA MONUC TGLs = 2 | | | |
| Mesentery | | Leukemia Mononuclear | |
| Pancreas | | Leukemia Mononuclear | |
| Spleen | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

| | | | |
|-----------------------|----------------------------|---------------------------------|-------------------------|
| ANIMAL ID: 179 | TRT#: 6 | SEX: Female | DAY ON TEST: 731 |
| | DOSE: .025G/KG 72HF | DISP: Terminal Sacrifice | HISTO: |

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------------|---------------------|-------------------------|-----------------|
| Adrenal Gland - Medulla | Brain | Esophagus | Harderian Gland |
| Islets, Pancreatic | Lung | Lymph Node - Mandibular | Ovary |
| Pancreas | Parathyroid Gland | Salivary Glands | Spleen |
| Stomach - Forestomach | Stomach - Glandular | Trachea | Urinary Bladder |

OBSERVATIONS

| | | | |
|---------------------------------------|--------------------------|------------------|---------------------|
| Adrenal Gland | Cortex | Degeneration | Moderate |
| Eye | Lens | Mineralization | Marked |
| Note: MINERALIZATION TGLs = 1-9 | | | |
| Heart | | Cardiomyopathy | Mild |
| Intestine Small | Duodenum, Lamina Propria | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 4-9 | | | |
| Kidney | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Hemosiderin, Marked |
| Liver | | Basophilic Focus | |
| Lymph Node | Mesenteric | Pigmentation | Marked |
| | Pancreatic | Pigmentation | Moderate |
| Note: PIGMENT TGLs = 5-9 | | | |
| Mammary Gland | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 2-10,2-10.1 | | | |
| Pituitary Gland | Pars Distalis | Adenoma | |
| Thyroid Gland | C Cell | Hyperplasia | Mild |
| Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05043-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 2,4-Diaminophenol dihydrochloride
CAS Number: 137-09-7

Date Report Requested: 10/16/2014
Time Report Requested: 14:58:22
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 180

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: .025G/KG 72HF

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|-------------------------|-----------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Brain | Esophagus |
| Heart | Islets, Pancreatic | Lung | Lymph Node - Mandibular |
| Ovary | Pancreas | Parathyroid Gland | Pituitary Gland |
| Salivary Glands | Spleen | Stomach - Forestomach | Stomach - Glandular |
| Thyroid Gland | Trachea | Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|--------------------------|----------------------------------|--------------------------------|
| Intestine Small Note: PIGMENT TGLs = 2-9 | Duodenum, Lamina Propria | Pigmentation | Marked |
| Kidney | Renal Tubule | Nephropathy Pigmentation | Minimal Hemosiderin, Marked |
| Liver Lymph Node Note: PIGMENT TGLs = 1-9 | Mesenteric | Basophilic Focus Pigmentation | Marked |
| Uterus | | Polyp Stromal | |

PRIMARY CAUSE OF DEATH

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**** END OF REPORT ****