

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

C Number:

C60162

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

09/07/1990

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28491

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28491

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	Larynx	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-8			
Liver		Cytologic Alterations	
	Bile Duct	Hyperplasia	Minimal
Note: CYTOLOGIC ALTER TGLs = 5-5			
Lymph Node	Mandibular	Cyst	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-3			
Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 9-10			
Prostate		Hyperplasia	Focal, Minimal
Seminal Vesicle		Atrophy	Minimal
Note: ATROPHY TGLs = 7-10			
Spleen		Congestion	Mild
		Inflammation	Granulomatous, Focal, Mild
Note: CONGESTION TGLs = 1-5			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 2,3-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28492

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28492

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 - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Kidney		Cyst	Mild
		Nephropathy	Moderate
Note: CYST TGLs = 10-8			
Note: NEPHROPATHY TGLs = 9-8			
Liver		Cytologic Alterations	Multiple
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
Note: HDN TGLs = 1-5			
Note: CYTOLOGIC ALTER TGLs = 2,3,4-5			
Lung		Hyperplasia	Adenomatous, Mild
Note: HYPERPLASIA TGLs = 11-7			
Nose	Turbinate	Inflammation	Subacute, Mild
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 8-10			
Testes	Interstitial Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ADENOMA TGLs = 6,7-10			
Note: ATROPHY TGLs = 5-10			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28493

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28493

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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Ear	External Ear	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 10-15			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 3-8			
Liver		Angiectasis	Minimal
		Cytologic Alterations	
	Bile Duct	Hyperplasia	Minimal
Note: ANGIECTASIS TGLs = 1-5			
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
Note: ALV BRON ADEN TGLs = 11-7			
Lymph Node	Inguinal	Cyst	Moderate
	Mandibular	Cyst	Mild
	Inguinal	Hyperplasia	Lymphoid, Mild
Note: CYST TGLs = 9-13			
Note: HYPERPLASIA TGLs = 9-13			
Nose	Turbinates	Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 8-14			

* PROTOCOL REQUIRED TISSUE

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Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28493

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28493

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate			Hyperplasia	Focal, Minimal
			Inflammation	Acute, Minimal
Seminal Vesicle			Atrophy	Mild
Note: ATROPHY	TGLs = 7-10			
Testes		Interstit Cell	Adenoma	Multiple
			Atrophy	Mild
Note: ADENOMA	TGLs = 4,6-10			
Note: ATROPHY	TGLs = 5-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28494

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Larynx	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 8-8		
Liver		Cyst	Mild
	Centrilobular	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
Note: CYST	TGLs = 5-5		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-6,7		
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA	TGLs = 3-15		
Nose	Sinus	Fungus	Mild
	Sinus	Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 13-3		
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 2-14		
Prostate		Inflammation	Acute, Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 9-10		
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

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Test Type: CHRONIC

Species/Strain: Rat/F 344/N

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Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28494

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28494

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-5

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Mild

Note: ATROPHY TGLs = 6-10

Note: ADENOMA TGLs = 7-10

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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Test Type: CHRONIC

Species/Strain: Rat/F 344/N

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CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28495

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 2-8		
Liver		Cytologic Alterations	
	Bile Duct	Hyperplasia	Minimal
Lung		Hyperplasia	Adenomatous, Mild
Note: HYPERPLASIA	TGLs = 8-6,7		
Lymph Node	Mandibular	Cyst	Minimal
	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 7-3		
Mesentery		Inflammation	Chronic, Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
		Mesothelioma Malignant	
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 1-10		
Prostate		Inflammation	Acute, Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 5-10		
Spleen		Mesothelioma Malignant	
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

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Test Type: CHRONIC

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Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28495

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28495

ORGAN AND ACCOUNTABLE SITE STATUS

Mesothelioma Malignant

Note: ADENOMA TGLs = 3,4-10

Thyroid Gland C Cell

Carcinoma

Note: CARCINOMA TGLs = 6-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28496

TRT#: 1

SEX: Male

DAY ON TEST: 708

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28496

ORGAN AND ACCOUNTABLE SITE STATUS

Renal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-2

[Leukemia Mononuclear TGLS = 15-16]

[Leukemia Mononuclear TGLS = 12-9]

[Leukemia Mononuclear TGLS = 14-15]

[Leukemia Mononuclear TGLS = 13-14]

[Leukemia Mononuclear TGLS = 4-3,13]

Mammary Gland

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Preputial Gland

Leukemia Mononuclear

Seminal Vesicle

Leukemia Mononuclear

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-5

Stomach

Glandular

Erosion

Minimal

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 11-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28497

TRT#: 1

SEX: Male

DAY ON TEST: 662

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Heart	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	Pituitary Gland	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal GI			
Note: MEDULLA: GANGLION CELLS ARE ABUNDANT IN 1 AD. MED. NO DX			
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
Note: HDN TGLs = 4-15			
Note: HYPERPLASIA TGLs = 3-15			
Note: LEUKEMIA MONUC TGLs = 3-11,15			
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Mammary GI			
Note: ADENOMA TGLs = 1-15			
Parathyroid GI			
Note: PARATHYROID IN THYMUS.			
Preputial Gland		Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 1-15			
Prostate		Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Stomach	Glandular	Erosion	Minimal
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28497

TRT#: 1

SEX: Male

DAY ON TEST: 662

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28497

ORGAN AND ACCOUNTABLE SITE STATUS

Atrophy

Mild

Note: ADENOMA TGLs = 6-5

Note: ATROPHY TGLs = 5-5

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28499

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28499

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 - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 3-8		
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Mild
Note: LESION 2 IS A DILATED BLOOD VESSEL.			
Note: CYTOLOGIC ALTER	TGLs = 1-5		
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Acute, Minimal
Prostate		Hyperplasia	Focal, Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 6-10		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 4,5-10		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28501

TRT#: 1

SEX: Male

DAY ON TEST: 540

DOSE: CONTROL MALE

DISP: Dead

HISTO: 28501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Salivary Glands	Skin
Thymus	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Bone Marrow	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-1			
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-15			
Prostate		Inflammation	Chronic, Moderate
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-5			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28502

TRT#: 1

SEX: Male

DAY ON TEST: 446

DOSE: CONTROL MALE

DISP: Dead

HISTO: 28502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
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OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Lymph Node	Mesenteric	Hemorrhage	Mild
Skin	Subcut Tiss	Schwannoma Benign	
Note: SCHWANNOMA BGN TGLs = 1-15			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 3-5			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28503

TRT#: 1

SEX: Male

DAY ON TEST: 561

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
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	Pituitary Gland	Prostate	Salivary Glands
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 5-12			
Liver	Bile Duct	Hyperplasia	Mild
Note: LEUKEMIA MONUC TGLs = 3-11		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-4			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-15			
Note: LEUKEMIA MONUC TGLs = 4-15			
Preputial Gland		Inflammation	Acute, Minimal
Seminal Vesicle		Atrophy	Mild
Skin		Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 1-15			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Stomach	Forestomach	Inflammation	Acute, Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 6-5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28503

TRT#: 1

SEX: Male

DAY ON TEST: 561

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28503

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 7-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28504

TRT#: 1

SEX: Male

DAY ON TEST: 648

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Minimal
	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
	Cortex	Thrombosis	Mild
Bone Marrow		Hyperplasia	Marked
Heart		Cardiomyopathy	Mild
Kidney		Hematopoietic Cell Proliferation	Mild
		Nephropathy	Moderate
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 6-11		
Preputial Gland		Inflammation	Acute, Marked
Note: INFLAMMATION	TGLs = 1-5		
Skin		Inflammation	Acute, Marked
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 2-12		
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA	TGLs = 4,5-5		
Note: ATROPHY	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28506

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28506

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
Larynx	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Preputial Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 5-3			
Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Mild
Note: THROMBUS TGLs = 4-4			
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-8			
Liver		Hepatodiaphragmatic Nodule	
Note: HDN TGLs = 1-5			
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 8-13			
Parathyroid Gland		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 7-3			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 10-3			
Prostate		Inflammation	Acute, Mild
Seminal Vesicle		Atrophy	Minimal
Note: ATROPHY TGLs = 6-10			
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28506

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28506

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28507

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Blood Vessel	Aorta	Inflammation	Chronic, Mild
Bone	Tarsal	Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 1-13			
Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-8			
Liver		Fibrosis	Focal, Mild
Note: FIBROSIS TGLs = 5-5	Bile Duct	Hyperplasia	Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 6-3,14			
Pancreas	Artery	Inflammation	Chronic, Marked
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 7-10			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 2,3-10			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28508

TRT#: 1

SEX: Male

DAY ON TEST: 628

DOSE: CONTROL MALE

DISP: Dead

HISTO: 28508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Note: MEDULLA: GANGLION CELLS ARE ABUNDANT IN 1 AD. MED. NO DX			
Heart		Cardiomyopathy	Minimal
	Epicardium	Fibrosis	Focal, Minimal
Note: FIBROSIS TGLs = 4-15			
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 3-15			
Mammary Gland		Fibroadenoma	
Preputial Gland		Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 1-15			
Skin			
Note: FIBROMA TGLs = 2-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Erosion	Minimal
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 2-5			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28509

TRT#: 1

SEX: Male

DAY ON TEST: 580

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28509

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-1			
Preputial Gland		Adenoma	
		Cyst	Moderate
Note: ADENOMA TGLs = 1-15			
Prostate		Inflammation	Acute, Mild
Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28510

TRT#: 1

SEX: Male

DAY ON TEST: 571

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28510

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	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 2-12			
Liver		Vacuolization Cytoplasmic	Diffuse, Marked
Note: VACUOLIZ CYTO TGLs = 1-11			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
Stomach	Glandular	Erosion	Mild
	Forestomach	Inflammation	Chronic, Mild
Testes	Interstitial Cell	Adenoma	
		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28511

TRT#: 1

SEX: Male

DAY ON TEST: 624

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28511

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	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 3-12			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			
Lung		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-12			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28512

TRT#: 1

SEX: Male

DAY ON TEST: 579

DOSE: CONTROL MALE

DISP: Dead

HISTO: 28512

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 4-12		
Liver		Congestion	Mild
		Bile Duct	Hyperplasia
Note: CONGESTION	TGLs = 1-11		Minimal
Lung		Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 3-4		
Nose	Turbinate	Inflammation	Chronic, Minimal
Pancreas	Acinus	Atrophy	Focal, Minimal
Preputial Gland		Inflammation	Acute, Minimal
Stomach	Artery, Forestomach	Inflammation	Chronic, Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28513

TRT#: 1

SEX: Male

DAY ON TEST: 624

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28513

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	Mammary Gland	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 4-12			
Liver	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lymph Node	Mesenteric	Leukemia Mononuclear	
Mesentery	Fat	Inflammation	Acute, Minimal
Nose	Nasolacrim Dct	Inflammation	Acute, Mild
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: HYPERPLASIA TGLs = 7-1			
Spleen		Leukemia Mononuclear	
		Necrosis	Mild
Note: LEUKEMIA MONUC TGLs = 1-12,15			
Note: NECROSIS TGLs = 2-15			
Stomach	Forestomach	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28513

TRT#: 1

SEX: Male

DAY ON TEST: 624

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28513

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 8-15

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 5-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28514

TRT#: 1

SEX: Male

DAY ON TEST: 620

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28514

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 - Duodenum	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	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
		Thrombosis	Moderate
Heart		Leukemia Mononuclear	
Kidney		Nephropathy	Moderate
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
Note: HDN	TGLs = 3-15		
Note: LEUKEMIA MONUC	TGLs = 4-15		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-4		
Prostate		Inflammation	Acute, Mild
Spleen		Leukemia Mononuclear	
		Necrosis	Mild
Note: LEUKEMIA MONUC	TGLs = 1-12		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-5		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28516

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28516

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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-8			
Liver		Cytologic Alterations	Multiple
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
Note: HDN TGLs = 2-13			
Lung	Interstitium	Inflammation	Chronic, Minimal
Lymph Node	Mandibular	Cyst	Mild
Nose	Sinus	Inflammation	Acute, Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
	Artery	Inflammation	Chronic, Moderate
Pituitary Gland	Pars Distalis	Cyst	Mild
Preputial Gland		Hyperplasia	Mild
		Inflammation	Acute, Mild
Prostate		Inflammation	Acute, Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 4-10			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28517

TRT#: 1

SEX: Male

DAY ON TEST: 687

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28517

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
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Clitoral Gl			
Note: ADENOMA	TGLs = 1-14		
Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Marked
Note: THROMBUS	TGLs = 6-15		
Islets, Pancreatic		Carcinoma	
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
		Nephropathy	Minimal
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 1-15		
Skin		Edema	Mild
Note: EDEMA	TGLs = 4-7,15		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 5-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28517

TRT#: 1

SEX: Male

DAY ON TEST: 687

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28517

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: AN APPARENT PROCESSOR MALFUNCTION OCCURRED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28518

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM MAL TGLs = 9-3	Medulla	Pheochromocytoma Malignant	
Bone Marrow		Fibrosis	Mild
Heart Note: THROMBUS TGLs = 8-4	Atrium	Cardiomyopathy Thrombosis	Minimal Moderate
Kidney Note: NEPHROPATHY TGLs = 4-8		Nephropathy	Mild
Larynx		Inflammation	Subacute, Mild
Liver Note: HYPERPLASIA TGLs = 2-14	Bile Duct	Hyperplasia Hyperplasia Leukemia Mononuclear	Moderate Nodular, Mild
Lung		Leukemia Mononuclear	
Nose	Turbinates	Inflammation	Chronic, Minimal
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland Note: ADENOMA TGLs = 10-3	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic, Minimal
Seminal Vesicle		Atrophy	Minimal
Spleen Note: LEUKEMIA MONUC TGLs = 1-13 Note: THE DESCRIBED CYST IS A SOLID MASS OF LEUKEMIC CELLS AND DEB		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28518

TRT#: 1

SEX: Male

DAY ON TEST: 713

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28518

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DEBRIS.

Testes

Interstitial Cell

Adenoma

Multiple

Note: ADENOMA

TGLs = 5-10

Thyroid Gland

Cyst

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28519

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28519

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	Larynx	Lung
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 2-8			
Liver		Angiectasis	Minimal
		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
Note: ANGIECTASIS TGLs = 1-5			
Lymph Node	Mandibular	Cyst	Mild
	Mesenteric	Cyst	Mild
Pancreas	Acinus	Atrophy	Focal, Mild
Preputial Gland		Adenoma	
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 5-10			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 3,4-10			
Thyroid Gland		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28520

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28520

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
Larynx	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Pituitary Gland	Preputial Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 3-8		
Liver		Angiectasis	Mild
		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
Note: ANGIECTASIS	TGLs = 5-5		
Note: CYTOLOGIC ALTER	TGLs = 4-5		
Lung		Hyperplasia	Adenomatous, Minimal
Prostate		Hyperplasia	Focal, Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 6-10		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1,2-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28521

TRT#: 1

SEX: Male

DAY ON TEST: 562

DOSE: CONTROL MALE

DISP: Dead

HISTO: 28521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Pancreas	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea			

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
		Thrombosis	Moderate
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-4		
Lymph Node	Mesenteric	Leukemia Mononuclear	
Nose		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-1		
Preputial Gland		Inflammation	Acute, Mild
Prostate		Inflammation	Acute, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-12		
Stomach			
Note: GLANDULAR STOMACH-A PORTION OF THE MUCOSA IS AUTOLYTIC			
Note: SUGGESTING ULCER.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28521

TRT#: 1

SEX: Male

DAY ON TEST: 562

DOSE: CONTROL MALE

DISP: Dead

HISTO: 28521

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstitial Cell	Adenoma
		Leukemia Mononuclear
Note: ADENOMA TGLs = 2-5		
Thymus		Leukemia Mononuclear
Urinary Bladder		Leukemia Mononuclear
Note: LEUKEMIA MONUC TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28522

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lung	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Epididymis		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 13-10			
Eye	Retina	Atrophy	Moderate
	Lens Capsule	Cataract	Moderate
Note: CATARACT TGLs = 1-13			
Heart		Cardiomyopathy	Minimal
Note: HEART-THE EPICARDIUM IS FIBROTIC IN ONE AREA. NO DX.			
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 8-8			
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: ANGIECTASIS TGLs = 4,5,6,7-5,14			
Lymph Node	Mediastinal	Cyst	Mild
Note: CYST TGLs = 15-3			
Nose	Sinus	Inflammation	Acute, Minimal
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 9-10			
Spleen		Fibrosis	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28522

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28522

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

Note: FIBROSIS TGLs = 3-5

Note: LEUKEMIA MONUC TGLs = 2-5

Testes

Interstit Cell

Adenoma

Multiple

Mesothelioma Malignant

Note: MESOTHELIO MAL TGLs = 10-10

Note: ADENOMA TGLs = 11,12-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28523

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28523

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	Larynx	Lung	Mammary Gland
Nose	Pancreas	Preputial Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-8			
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Nodular, Moderate
		Leukemia Mononuclear	
Note: ANGIECTASIS TGLs = 6-5			
Note: HYPERPLASIA TGLs = 5-13			
Lymph Node	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-14			
Parathyroid Gland		Adenoma	
Note: ADENOMA TGLs = 8-3,4			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 11-3			
Prostate		Inflammation	Acute, Mild
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 10-10			
Spleen		Fibrosis	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:38

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28523

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28523

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

Note: FIBROSIS TGLs = 2-5

Note: LEUKEMIA MONUC TGLs = 1-5

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 4-10

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28524

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28524

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 2-8		
Liver		Angiectasis	Mild
		Cytologic Alterations	Multiple
		Fibrosis	Focal, Minimal
		Hyperplasia	Minimal
Note: FIBROSIS	TGLs = 1-5		
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Cyst	Mild
Spleen		Congestion	Mild
Note: CONGESTION	TGLs = 7-5		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 4,5-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28525

TRT#: 1

SEX: Male

DAY ON TEST: 692

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart	Atrium	Thrombosis	Moderate
Note: THROMBUS TGLs = 6-9,15			
Intest Large			
Note: REPESENTS ILEUM.			
Note: COLON-THE MASS CONTAINS PANETH CELLS AND PROBABLY			
Intestine Small	Ileum	Adenoma	Papillary
Note: ADENOMA TGLs = 10-6			
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 5-12			
Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
Note: VACUOLIZ CYTO TGLs = 4-11		Vacuolization Cytoplasmic	Moderate
Note: HEPATIC LOBULATION.			
Note: LIVER-THE LESION MAY BE ATTRIBUTABLE TO ACCENTUATED			
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Edema	Mild
	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 9-15			
Mesentery		Inflammation	Acute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28525

TRT#: 1

SEX: Male

DAY ON TEST: 692

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28525

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-12

Testes

Interstit Cell

Adenoma

Multiple

Note: ATROPHY TGLs = 7-5

Note: ADENOMA TGLs = 8-5

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28526

TRT#: 1

SEX: Male

DAY ON TEST: 379

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Brain		Sarcoma	
Note: BRAIN-THE LESION IS CONSISTENT WITH MALIGNANT RETICULOSIS			
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mesenteric	Hemorrhage	Mild
Nose		Inflammation	Acute, Minimal
Prostate		Inflammation	Acute, Minimal
Stomach	Forestomach	Edema	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28527

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28527

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 Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 10-8			
Liver		Angiectasis	Minimal
		Cytologic Alterations	
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-5			
Note: ANGIECTASIS TGLs = 6-5			
Note: CYTOLOGC ALTER TGLs = 5-14			
Lung		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 12-6,7			
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 13-16			
Mammary Gland		Fibroadenoma	
Prostate		Inflammation	Chronic, Mild
Seminal Vesicle		Atrophy	Minimal
Note: ATROPHY TGLs = 11-10			
Spleen		Fibrosis	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28527

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28527

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-5

Note: FIBROSIS TGLs = 3-5

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Mild

Note: ATROPHY TGLs = 7-10

Note: ADENOMA TGLs = 8,9-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28528

TRT#: 1

SEX: Male

DAY ON TEST: 704

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Bone		Hyperostosis	Mild
Heart		Cardiomyopathy	Moderate
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 5-8			
Liver		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
	Centrilobular	Vacuolization Cytoplasmic	Moderate
Note: HYPERPLASIA TGLs = 4-5			
Note: VACUOLIZ CYTO TGLs = 3-5			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-6,7			
Nose	Turbinate	Inflammation	Chronic, Mild
Seminal Vesicle		Atrophy	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-5,13			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ADENOMA TGLs = 6,7-10			
Note: ATROPHY TGLs = 8-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28528

TRT#: 1

SEX: Male

DAY ON TEST: 704

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28528

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28529

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28529

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 5-8			
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Mild
Note: LIVER-THE NODULE IS CAUSED BY FIBROSIS ASSOCIATED WITH			
Note: HYPERPLASIA TGLs = 4-5			
Note: BILE DUCT HYPERPLASIA.			
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 9-13			
Lymph Node	Mediastinal	Hemorrhage	Minimal
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 8-3			
Prostate		Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 6-8			
Seminal Vesicle		Atrophy	Mild
Skin		Keratoacanthoma	
Note: KERATOACANTHOMA TGLs = 1-14			
Spleen		Congestion	Mild
		Infiltration Cellular	Histiocyte, Moderate
Note: INFILTRAT CELL TGLs = 3-5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28529	TRT#: 1	SEX: Male	DAY ON TEST: 732
	DOSE: CONTROL MALE	DISP: Terminal Sacrifice	HISTO: 28529

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CONGESTION	TGLs = 2-5		
Testes		Interstitial Cell	Adenoma
Note: ADENOMA	TGLs = 7-10		Multiple
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28530

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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
Larynx	Lymph Node - Mesenteric	Mammary Gland	Salivary Glands
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Bone		Osteomalacia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Cyst	Mild
		Nephropathy	Marked
Note: CYST TGLs = 2-8			
Note: NEPHROPATHY TGLs = 1,4,5-8			
Liver		Cytologic Alterations	
		Hemorrhage	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 12-5			
Lung		Infiltration Cellular	Histiocyte, Minimal
Nose	Sinus	Inflammation	Acute, Mild
Pancreas	Artery	Inflammation	Chronic, Mild
Parathyroid Gland		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 9-3			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 7-3			
Preputial Gland		Adenoma	
		Inflammation	Acute, Mild
Prostate		Inflammation	Acute, Moderate
Note: INFLAMMATION TGLs = 8-8			
Seminal Vesicle		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28530

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28530

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ATROPHY TGLs = 3-10

Skin

Squamous Cell Carcinoma

Note: SQUAM CEL CARC TGLs = 10-13

Spleen

Fibrosis

Focal, Mild

Leukemia Mononuclear

Note: FIBROSIS TGLs = 11-5

Stomach

Forestomach

Mineralization

Mild

Testes

Atrophy

Minimal

Note: ATROPHY TGLs = 6-10

Urinary Bladder

Transit Epithe

Papilloma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28532

TRT#: 1

SEX: Male

DAY ON TEST: 696

DOSE: CONTROL MALE

DISP: Dead

HISTO: 28532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Mammary Gland	Nose
Parathyroid Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Thymus	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: HDN	TGLs = 2,3-15		
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-1		
Preputial Gland	Bilateral	Carcinoma	
Note: CARCINOMA	TGLs = 1-15		
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Ulcer	Moderate
Note: ULCER	TGLs = 6-15		
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28532

TRT#: 1

SEX: Male

DAY ON TEST: 696

DOSE: CONTROL MALE

DISP: Dead

HISTO: 28532

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 4-5

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28533

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28533

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4,5-8			
Liver	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-5			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Cyst	Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Prostate		Inflammation	Acute, Mild
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 8-10			
Spleen		Fibrosis	Focal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-5			
Note: FIBROSIS TGLs = 2-5			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ADENOMA TGLs = 7-10			
Note: ATROPHY TGLs = 6-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28533

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28533

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28534

TRT#: 1

SEX: Male

DAY ON TEST: 692

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Skin

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 2-12		
Liver	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-11		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6,7-4		
Nose	Sinus	Fungus	Mild
	Sinus	Inflammation	Acute, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-12		
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ATROPHY	TGLs = 3-5		
Note: ADENOMA	TGLs = 4-5		
Tooth		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28534

TRT#: 1

SEX: Male

DAY ON TEST: 692

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28534

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28535

TRT#: 1

SEX: Male

DAY ON TEST: 443

DOSE: CONTROL MALE

DISP: Dead

HISTO: 28535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Islets, Pancreatic
Kidney	Liver	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Preputial Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Seminal Vesicle	

OBSERVATIONS

Brain		Hemorrhage	Mild
Lung		Congestion	Mild
Note: CONGESTION	TGLs = 2-4		
Nose	Sinus	Fungus	Mild
	Sinus	Inflammation	Acute, Moderate
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-1		
Prostate		Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28537

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28537

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
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Skin	Stomach - Forestomach	Stomach - Glandular
Trachea			

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	Multiple
Heart		Cardiomyopathy	Mild
	Atrium	Leukemia Mononuclear	
Note: THROMBUS	TGLs = 17-4	Thrombosis	Moderate
Islets, Pancreatic		Hyperplasia	Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 13-8		
Larynx		Ulcer	Mild
Liver		Angiectasis	Moderate
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
Note: HDN	TGLs = 9-5		
Note: ANGIECTASIS	TGLs = 7,8,10,11,12-5,14		
Note: LEUKEMIA MONUC	TGLs = 6-5,14		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 18,19-6,7		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28537

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28537

ORGAN AND ACCOUNTABLE SITE STATUS

Mesenteric		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 20-3,13		
Note: LEUKEMIA MONUC	TGLs = 3-2		
Note: LEUKEMIA MONUC	TGLs = 4-9		
Mesentery		Inflammation	Acute, Mild
Note: INFLAMMATION	TGLs = 5-9		
Pancreas		Atrophy	Focal, Moderate
Preputial Gland		Inflammation	Acute, Mild
		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Seminal Vesicle		Atrophy	Mild
		Leukemia Mononuclear	
Note: ATROPHY	TGLs = 14-10		
Spleen		Fibrosis	Focal, Minimal
		Leukemia Mononuclear	
Note: FIBROSIS	TGLs = 2-5		
Note: LEUKEMIA MONUC	TGLs = 1-5,14		
Testes		Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA	TGLs = 16-10		
Note: ATROPHY	TGLs = 15-10		
Thymus		Leukemia Mononuclear	
Thyroid Gland		Hyperplasia	Minimal
Note: HYPERPLASIA	TGLs = 21-3		
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28538

TRT#: 1

SEX: Male

DAY ON TEST: 67

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Blood Vessel	Aorta	Mineralization	Moderate
Intestine Large	Cecum	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 1-6			
Kidney	Renal Tubule	Degeneration	Marked
Note: DEGEN TGLs = 2-12			
Mammary Gland		Fibroadenoma	
Stomach	Glandular	Mineralization	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28539

TRT#: 1

SEX: Male

DAY ON TEST: 630

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28539

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	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
Note: NECROSIS TGLs = 4-15			
Skin	Subcut Tiss	Fibrosarcoma	
Note: KERATOACANTHMA TGLs = 2-15		Keratoacanthoma	
Note: FIBROSARC TGLs = 1-7			
Spleen		Fibrosis	Focal, Moderate
Note: FIBROSIS TGLs = 3-15			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 5-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28540

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28540

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 - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Heart	Atrium	Cardiomyopathy Thrombosis	Mild Moderate
Note: THROMBUS TGLs = 8-4			
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 5-8			
Liver	Bile Duct	Cytologic Alterations Hyperplasia Neoplastic Nodule	Multiple Mild
Note: NEOPLASTIC NOD TGLs = 3-5			
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 9-15			
Pancreas	Acinus	Atrophy	Focal, Mild
Prostate		Inflammation	Acute, Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 6-10			
Skin		Squamous Cell Papilloma	
Note: THE SKIN TUMOR IS PROBABLY OF HAIR SHAFT ORGIN.			
Note: SQ CL PAPILOM TGLs = 1-13			
Spleen		Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 2-5			
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28540

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28540

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 7-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28541

TRT#: 1

SEX: Male

DAY ON TEST: 704

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	Multiple
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Cyst	Mild
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 3-8		
Larynx		Carcinoma	Metastatic (Thyroid Gland)
Liver		Angiectasis	Mild
		Hyperplasia	Focal, Mild
	Periportal	Vacuolization Cytoplasmic	Moderate
Note: VACUOLIZ CYTO	TGLs = 2-5		
Lung		Carcinoma	Metastatic (Thyroid Gland)
Note: CARCINOMA	TGLs = 5-6,7		
Lymph Node	Deep Cervical	Carcinoma	Metastatic (Thyroid Gland)
Note: CARCINOMA	TGLs = 7-2		
Nose	Sinus	Fungus	Mild
	Sinus	Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	Multiple
Note: ADENOMA	TGLs = 8-3		
Seminal Vesicle		Atrophy	Mild
Spleen		Fibrosis	Focal, Mild
Note: FIBROSIS	TGLs = 1-5		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28541

TRT#: 1

SEX: Male

DAY ON TEST: 704

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28541

ORGAN AND ACCOUNTABLE SITE STATUS

Testes		Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 4-10			
Thyroid Gland		C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 6-3			
Trachea			Carcinoma	Metastatic (Thyroid Gland)
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28542

TRT#: 1

SEX: Male

DAY ON TEST: 640

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

Stomach - Glandular

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 2-11			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-1			
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-12			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 4-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28546

TRT#: 1

SEX: Male

DAY ON TEST: 641

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
Intestine Small	Jejunum	Nephropathy	Moderate
Liver		Angiectasis	Mild
		Leukemia Mononuclear	
Note: ANGIECTASIS	TGLs = 7-15		
Note: LEUKEMIA MONUC	TGLs = 4-11		
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mesenteric	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 6-15		
Mammary Gland		Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-1		
Spleen		Leukemia Mononuclear	
Testes			
Note: THE LESIONS ARE PROBABLY ATTRIB. TO DILATED BLD.VESSELS.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28547

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Leukemia Mononuclear	
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 2-8		
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-5		
Note: HYPERPLASIA	TGLs = 7-5		
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 10-13		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 12-3		
Prostate		Inflammation	Acute, Minimal
Seminal Vesicle		Atrophy	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-5		
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28547

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28547

ORGAN AND ACCOUNTABLE SITE STATUS

Mesothelioma Malignant

Note: ADENOMA TGLs = 3,5-10

Note: ATROPHY TGLs = 4-10

Thyroid GI

Note: THYROID-THE RED SPOT IS ARTIFACTUAL HEMORRHAGE.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28548

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28548

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	Larynx	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Eye	Retina	Atrophy	Mild
	Lens Capsule	Cataract	Moderate
Note: CATARACT TGLs = 1-13			
Note: ATROPHY TGLs = 1-13			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-8			
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Mild
Note: CYTOLOGIC ALTER TGLs = 4-5			
Lung		Alveolar/Bronchiolar Carcinoma	
Note: ALV BRON CARC TGLs = 8-6,7			
Nose	Turbinates	Inflammation	Chronic, Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 2-10			
Prostate		Inflammation	Acute, Minimal
Seminal Vesicle		Atrophy	Mild
Testes	Interstitial Cell	Adenoma	Multiple
		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28548

TRT#: 1

SEX: Male

DAY ON TEST: 733

DOSE: CONTROL MALE

DISP: Terminal Sacrifice

HISTO: 28548

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 5,6-10

Note: ATROPHY TGLs = 7-10

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28550

TRT#: 1

SEX: Male

DAY ON TEST: 606

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Intestine Large	Cecum	Edema	Moderate
Note: EDEMA TGLs = 10-6			
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 8-12			
Note: LEUKEMIA MONUC TGLs = 9-12			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-11			
Lung		Hyperplasia	Adenomatous, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 13-15			
Note: LEUKEMIA MONUC TGLs = 14-4,15			
Lymph Node	Axillary	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28550

TRT#: 1

SEX: Male

DAY ON TEST: 606

DOSE: CONTROL MALE

DISP: Moribund

HISTO: 28550

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 6-1

Note: LEUKEMIA MONUC TGLs = 2-15

[Leukemia Mononuclear TGLS = 16-15]

[Leukemia Mononuclear TGLS = 7-15]

[Leukemia Mononuclear TGLS = 3-15]

[Leukemia Mononuclear TGLS = 12-15]

Nose	Sinus	Inflammation	Acute, Minimal
Preputial Gland		Inflammation	Acute, Mild
Prostate		Inflammation	Acute, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-12			
Testes	Interstit Cell	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 11-5			
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 15-3			
Trachea		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28611

TRT#: 2

SEX: Male

DAY ON TEST: 734

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Mild

Heart

Cardiomyopathy

Mild

Note: CARDIOMYOPATHY TGLs = 9-4

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 2-8

Liver

Angiectasis

Mild

Cytologic Alterations

Multiple

Bile Duct

Hyperplasia

Minimal

Hyperplasia

Focal, Mild

[Hyperplasia TGLs = 4,5,6-5]

Lymph Node

Mediastinal

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 8-13

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 7-10

Spleen

Fibrosis

Focal, Mild

Note: FIBROSIS TGLs = 1-5

Testes

Interstitial Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 3-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28612

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: 12500PPMMALE

DISP: Terminal Sacrifice

HISTO: 28612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Seminal Vesicle

Spleen

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Multiple

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 5-8

Liver

Congestion

Minimal

Cytologic Alterations

Multiple

Bile Duct

Hyperplasia

Mild

Note: CONGESTION TGLs = 2-5

Note: HYPERPLASIA TGLs = 1-5

Lymph Node

Mediastinal

Hemorrhage

Minimal

Note: HEMORRHAGE TGLs = 6-13

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 3,4-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28613

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 12500PPMMALE

DISP: Terminal Sacrifice

HISTO: 28613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Mild

Medulla

Pheochromocytoma Benign

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 9-8

Liver

Cytologic Alterations

Multiple

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Mild

Note: HDN TGLs = 4-5

Note: CYTOLOGIC ALTER TGLs = 5,8-5,13

Skin

Sebaceous GI

Adenoma

Note: ADENOMA TGLs = 1-15

Spleen

Fibrosis

Focal, Mild

Note: FIBROSIS TGLs = 3-5,13

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 6,7-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28614

TRT#: 2

SEX: Male

DAY ON TEST: 644

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Pituitary Gland

Stomach - Forestomach

OBSERVATIONS

Heart

Cardiomyopathy

Mild

Atrium

Thrombosis

Mild

Note: THROMBUS TGLs = 5-9

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 2-12

Liver

Bile Duct

Hyperplasia

Mild

Centrilobular

Vacuolization Cytoplasmic

Moderate

Note: VACUOLIZ CYTO TGLs = 1-11

Spleen

Leukemia Mononuclear

Stomach

Glandular

Erosion

Mild

Note: EROSION TGLs = 7-6

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 4-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28615	TRT#: 2	SEX: Male	DAY ON TEST: 734
	DOSE: 12500PPMMALE	DISP: Terminal Sacrifice	HISTO: 28615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Parathyroid Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 8-8			
Liver		Angiectasis	Mild
		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Mild
Note: CYTOLOGC ALTER TGLs = 4,5,6-5			
Note: ANGIECTASIS TGLs = 7-5,13			
Spleen		Congestion	Mild
Note: CONGESTION TGLs = 1-5			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 2,3-10			
Thyroid Gland	C Cell	Adenoma	
Note: ADENOMA TGLs = 9-3			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28616

TRT#: 2

SEX: Male

DAY ON TEST: 621

DOSE: 12500PPMALE

DISP: Dead

HISTO: 28616

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-11		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-4		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA	TGLs = 3-1		
Spleen		Leukemia Mononuclear	
Stomach	Epithelium, Forestomach	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28617

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Skin

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 9-8		
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: LEUKEMIA MONUC	TGLs = 7-5,13		
Note: NEOPLASTIC NOD	TGLs = 6-5,13		
Note: HYPERPLASIA	TGLs = 6-5,13		
Lung		Hyperplasia	Adenomatous, Mild
Note: HYPERPLASIA	TGLs = 10-6,7		
Lymph Node		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-15		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 12-14		
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 11-3]			
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 13-10		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-5		
Testes	Interstitial Cell	Adenoma	
		Atrophy	Marked
Note: ADENOMA	TGLs = 1,3-10		
Note: ATROPHY	TGLs = 2-10		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28617

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28617

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28618

TRT#: 2

SEX: Male

DAY ON TEST: 697

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex Skin

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
	Atrium	Leukemia Mononuclear	
Note: THROMBUS TGLs = 4-4		Thrombosis	Mild
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-5		Alveolar/Bronchiolar Carcinoma	
Lung		Carcinoma	Metastatic (Preputial Gland)
		Leukemia Mononuclear	
Note: CARCINOMA TGLs = 5-13		Alveolar/Bronchiolar Carcinoma	
Note: ALV BRON CARC TGLs = 6-13		Leukemia Mononuclear	
Lymph Node	Mediastinal	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-10		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 3-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28619

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 12500PPMMALE

DISP: Terminal Sacrifice

HISTO: 28619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Note: CARDIOMYOPATHY TGLs = 7-4			
Kidney		Cyst	Minimal
		Nephropathy	Moderate
Note: CYST TGLs = 2-8			
Note: NEPHROPATHY TGLs = 1-8			
Liver		Cytologic Alterations	Multiple
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hemorrhage	Minimal
Lung			
Note: HEMORRHAGE TGLs = 9-6,7			
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
Note: HYPERPLASIA TGLs = 5-14			
Mammary Gland		Dilatation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-3			
Preputial Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 4-13			
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 3-10			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 6-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28621

TRT#: 2

SEX: Male

DAY ON TEST: 623

DOSE: 12500PPMALE

DISP: Dead

HISTO: 28621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Mammary Gland	Nose	Pancreas	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Thymus	Thyroid Gland	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
Bone		Osteomalacia	Moderate
Heart		Cardiomyopathy	Mild
	Atrium	Mineralization	Moderate
		Thrombosis	Moderate
Note: MINERALIZATION TGLs = 5-9			
Note: THROMBUS TGLs = 4-15			
Intestine Large	Colon	Mineralization	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 2-12			
Liver		Congestion	Mild
Note: CONGESTION TGLs = 3-11			
Lung		Hyperplasia	Adenomatous, Moderate
Lymph Node	Mesenteric	Hemorrhage	Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Forestomach	Mineralization	Moderate
	Glandular	Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28621

TRT#: 2

SEX: Male

DAY ON TEST: 623

DOSE: 12500PPMALE

DISP: Dead

HISTO: 28621

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28622

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 12500PPMMALE

DISP: Terminal Sacrifice

HISTO: 28622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Spleen

Islets, Pancreatic

Lung

Pituitary Gland

OBSERVATIONS

Adrenal Gland
Kidney

Medulla

Hyperplasia
Nephropathy

Minimal
Mild

Note: NEPHROPATHY TGLs = 3-8

Liver

Hepatodiaphragmatic Nodule
Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 2-5

Note: HDN TGLs = 1-5

Lung

Note: NCL

Lymph Node

Mediastinal

Hemorrhage

Moderate

Note: HEMORRHAGE TGLs = 8-13

Pancreas

Accessory Spleen

[Accessory Spleen TGLs = 9-2]

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 6-10

Testes

Interstitial Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 4,5-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28623

TRT#: 2

SEX: Male

DAY ON TEST: 719

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Stomach - Glandular

Esophagus

Islets, Pancreatic

Spleen

OBSERVATIONS

Adrenal Gland
Esophagus

Cortex

Inflammation

Subacute, Moderate

Note: NCL

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 3-8

Liver

Bile Duct

Hyperplasia

Moderate

Note: HYPERPLASIA TGLs = 2-5

Pancreas

Sarcoma

Metastatic (Tissue Nos)

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 9-3]

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 7-10

Skeletal Muscle

Diaphragm

Sarcoma

Metastatic (Tissue Nos)

Note: SARCOMA TGLs = 6-14

Stomach

Forestomach

Sarcoma

Metastatic (Tissue Nos)

Note: SARCOMA TGLs = 10-9

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 5-10

Note: ATROPHY TGLs = 4-10

Tissue NOS

Sarcoma

Moderate

Note: SARCOMA TGLs = 1-13,14

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28624

TRT#: 2

SEX: Male

DAY ON TEST: 676

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Seminal Vesicle

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Liver

Leukemia Mononuclear

Lymph Node

Mediastinal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-15

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Preputial Gland

Carcinoma

Note: CARCINOMA TGLs = 1-15

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-12

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28626

TRT#: 2

SEX: Male

DAY ON TEST: 697

DOSE: 12500PPMMALE

DISP: Moribund

HISTO: 28626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pituitary Gland

Seminal Vesicle

Stomach - Glandular

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Medulla

Pheochromocytoma Malignant

Note: PHEOCHROM MAL TGLs = 6-1

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 3-12

Liver

Leukemia Mononuclear

Note: VACUOLIZ CYTO TGLs = 2-11

Centrilobular

Vacuolization Cytoplasmic

Mild

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-12

Stomach

Forestomach

Ulcer

Moderate

Note: ULCER TGLs = 5-15

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 4-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28627

TRT#: 2

SEX: Male

DAY ON TEST: 327

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28627

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 - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	

Note: ADENOMA TGLs = 1-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28629

TRT#: 2

SEX: Male

DAY ON TEST: 725

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Mild

Medulla

Leukemia Mononuclear

Medulla

Pheochromocytoma Benign

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 5-8

Liver

Angiectasis

Mild

Bile Duct

Hyperplasia

Moderate

Hyperplasia

Focal, Mild

Leukemia Mononuclear

Note: HYPERPLASIA TGLs = 2-13

Note: LEUKEMIA MONUC TGLs = 4-5

Lymph Node

Mediastinal

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-15

Note: LEUKEMIA MONUC TGLs = 7-14

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-5

Testes

Interstitial Cell

Adenoma

Atrophy

Moderate

Note: ATROPHY TGLs = 6-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28630

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: 12500PPMMALE

DISP: Terminal Sacrifice

HISTO: 28630

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Lung

Pituitary Gland

Thyroid Gland

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Kidney

Cyst

Mild

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 5-8

Liver

Angiectasis

Mild

Cytologic Alterations

Bile Duct

Hyperplasia

Minimal

Note: ANGIECTASIS TGLs = 3,4-13

Lung

Note: NCL

Lymph Node

Mediastinal

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 11-14

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 8-10

Spleen

Fibrosis

Focal, Mild

Note: FIBROSIS TGLs = 2-5

Note: LEUKEMIA MONUC TGLs = 1-5

Testes

Interstitial Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 6,7-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28631

TRT#: 2

SEX: Male

DAY ON TEST: 734

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Spleen

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Mild

Medulla

Pheochromocytoma Malignant

Note: PHEOCHROM MAL TGLs = 2-3

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 3-8

Liver

Angiectasis

Mild

Cytologic Alterations

Bile Duct

Hyperplasia

Mild

Inflammation

Chronic, Mild

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Nervosa

Ectopic Tissue

[Angiectasis TGLs = 5-3]

Preputial Gland

Inflammation

Acute, Mild

Note: INFLAMMATION TGLs = 1-10

Testes

Atrophy

Marked

Interstitial Cell

Hyperplasia

Mild

Note: ATROPHY TGLs = 4-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28632

TRT#: 2

SEX: Male

DAY ON TEST: 663

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Pituitary Gland

Seminal Vesicle

OBSERVATIONS

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 4-12

Liver

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-11

Lung

Interstitialium

Inflammation

Chronic, Mild

Note: INFLAMMATION TGLs = 8-4

Preputial Gland

Adenoma

Note: ADENOMA TGLs = 1-15

Spleen

Leukemia Mononuclear

Necrosis

Moderate

Note: LEUKEMIA MONUC TGLs = 2-12

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 5,6,7-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28633

TRT#: 2

SEX: Male

DAY ON TEST: 615

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28633

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Thymus
Thyroid Gland	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Bone Marrow		Hyperplasia	Mild
Heart		Sarcoma	Metastatic (Skin)
Intestine Small	Duodenum	Inflammation	Acute, Mild
Kidney		Nephropathy	Mild
Lung		Sarcoma	Metastatic (Skin)
Note: SARCOMA	TGLs = 4,5-3,4,15		
Nose	Sinus	Foreign Body	Mild
	Sinus	Inflammation	Acute, Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
Preputial Gland		Inflammation	Acute, Mild
Skin	Subcut Tiss	Sarcoma	
Note: SARCOMA	TGLs = 1-15		
Note: THE SKIN NEOPLASM IS CONSISTENT WITH A			
Note: MALIGNANT FIBROUS HISTIOCYTOMA.			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 2-12		
Stomach	Glandular	Amyloid Deposition	Mild
	Epithelium, Forestomach	Hyperplasia	Mild
Note: AMYLOID DEP	TGLs = 6-6		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 3-5		
Trachea		Sarcoma	Metastatic (Skin)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28633

TRT#: 2

SEX: Male

DAY ON TEST: 615

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28633

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28635

TRT#: 2

SEX: Male

DAY ON TEST: 134

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28635

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Liver		Fibrosis	Moderate
		Thrombosis	Moderate
Note: FIBROSIS	TGLs = 1-11		
Lung	Mediastinum	Hemangiosarcoma	
Note: HEMANGIOSARC	TGLs = 2-15		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28636

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

OBSERVATIONS

Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 2-8		
Liver		Cytologic Alterations	
		Hepatodiaphragmatic Nodule	
		Bile Duct	Minimal
		Mesenteric	Mild
Lymph Node		Hemorrhage	
Note: HEMORRHAGE	TGLs = 7-13		
Pituitary Gland		Hyperplasia	Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 6-10		
Spleen		Fibrosis	Focal, Minimal
Note: LESION NOT SEEN AT TRIM.			
Note: NCL			
Testes		Adenoma	Multiple
Note: ADENOMA	TGLs = 4,5-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28637

TRT#: 2

SEX: Male

DAY ON TEST: 618

DOSE: 12500PPMALE

DISP: Dead

HISTO: 28637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Islets, Pancreatic	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
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OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 2-15			
Note: LEUKEMIA MONUC TGLs = 3-11			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4			
Lymph Node	Mesenteric	Hemorrhage	Mild
	Iliac	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-15			
Note: LEUKEMIA MONUC TGLs = 7-15			
Note: LEUKEMIA MONUC TGLs = 5-15			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28637

TRT#: 2

SEX: Male

DAY ON TEST: 618

DOSE: 12500PPMALE

DISP: Dead

HISTO: 28637

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMORRHAGE TGLs = 9-1

Note: LEUKEMIA MONUC TGLs = 6-15

[Hemorrhage TGLs = 8-15]

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-12

Stomach

Glandular

Ulcer

Mild

Note: ULCER TGLs = 11-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28638

TRT#: 2

SEX: Male

DAY ON TEST: 683

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Seminal Vesicle

Stomach - Glandular

OBSERVATIONS

Adrenal Gland

Cortex

Leukemia Mononuclear

Medulla

Leukemia Mononuclear

Kidney

Leukemia Mononuclear

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 5-12

Liver

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-11

Lung

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7-4

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Leukemia Mononuclear

Spleen

Note: LEUKEMIA MONUC TGLs = 2,3-12

Stomach

Forestomach

Ulcer

Mild

Note: ULCER TGLs = 8-6

Testes

Interstit Cell

Adenoma

Note: ADENOMA TGLs = 6-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28639

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Spleen

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Mild

Liver

Cytologic Alterations

Bile Duct

Hyperplasia

Minimal

Lymph Node

Mediastinal

Hemorrhage

Minimal

Note: HEMORRHAGE TGLs = 4-14

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-13

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Seminal Vesicle

Atrophy

Minimal

Note: ATROPHY TGLs = 2-10

Spleen

Note: NCL

Testes

Interstitial Cell

Adenoma

Multiple

Atrophy

Mild

Note: ATROPHY TGLs = 5-10

Note: ADENOMA TGLs = 6-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28640

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Cortex

Hyperplasia

Mild

Medulla

Hyperplasia

Mild

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 4-8

Liver

Cytologic Alterations

Bile Duct

Hyperplasia

Mild

Hyperplasia

Focal, Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8-5

Note: HYPERPLASIA TGLs = 5,6,7-13

Lung

Alveolar/Bronchiolar Adenoma

Note: ALV BRON ADEN TGLs = 9-6,7

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-5

Testes

Interstitial Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 3-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28641

TRT#: 2

SEX: Male

DAY ON TEST: 521

DOSE: 12500PPMALE

DISP: Dead

HISTO: 28641

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	Kidney
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Seminal Vesicle
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OBSERVATIONS

Heart		Cardiomyopathy	Mild
Liver		Congestion	Mild
	Bile Duct	Hyperplasia	Mild
Note: CONGESTION	TGLs = 2-11		
Lung		Congestion	Mild
Note: CONGESTION	TGLs = 3-4		
Mammary Gland		Dilatation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-1		
Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28642

TRT#: 2

SEX: Male

DAY ON TEST: 595

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 4-12			
Liver	Bile Duct	Hyperplasia	Mild
Note: LEUKEMIA MONUC TGLs = 3-11		Leukemia Mononuclear	
Preputial Gland		Adenoma	
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-15			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Testes		Mesothelioma Benign	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28644

TRT#: 2

SEX: Male

DAY ON TEST: 580

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Moderate
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 7-12		
Liver		Cytologic Alterations	
Lymph Node	Iliac	Cyst	Mild
	Renal	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 6-15		
Note: CYST	TGLs = 5-15		
Nose	Sinus	Fungus	Mild
	Sinus	Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 1-15		
Skin		Inflammation	Chronic, Mild
Note: INFLAMMATION	TGLs = 2-7		
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28644

TRT#: 2

SEX: Male

DAY ON TEST: 580

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28644

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 3-5

Note: ATROPHY TGLs = 4-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28645

TRT#: 2

SEX: Male

DAY ON TEST: 571

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Heart	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	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 4-12			
Liver		Angiectasis	Minimal
Note: LEUKEMIA MONUC TGLs = 3-11		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-12			
Stomach	Forestomach	Ulcer	Mild
Testes	Interstit Cell	Hyperplasia	Minimal
Note: NCL			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28646

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: 12500PPMMALE

DISP: Terminal Sacrifice

HISTO: 28646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Lung

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Minimal

Medulla

Leukemia Mononuclear

Kidney

Nephropathy

Marked

Note: KIDNEY BLOCK NOT AVAILABLE FOR RECUT

Note: NEPHROPATHY TGLs = 7-8

Liver

Angiectasis

Minimal

Bile Duct

Hyperplasia

Mild

Hyperplasia

Multifocal, Mild

Leukemia Mononuclear

Note: ANGIECTASIS TGLs = 5-5

Note: HYPERPLASIA TGLs = 6-5

Lung

Note: NCL

Lymph Node

Mediastinal

Hemorrhage

Minimal

Note: HEMORRHAGE TGLs = 12-13

Seminal Vesicle

Atrophy

Moderate

Note: ATROPHY TGLs = 9-10

Skin

Squamous Cell Carcinoma

Note: SQUAM CEL CARC TGLs = 10-15

Spleen

Fibrosis

Focal, Minimal

Leukemia Mononuclear

Note: FIBROSIS TGLs = 3-5

Note: LEUKEMIA MONUC TGLs = 4-5

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 1,2-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28648

TRT#: 2

SEX: Male

DAY ON TEST: 510

DOSE: 12500PPMMALE

DISP: Moribund

HISTO: 28648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Eye			
Note: NCL			
Heart	Endocardium	Thrombosis	Mild
Kidney		Nephropathy	Minimal
Note: NCL; FOCAL LESION NOT FOUND.			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Vacuolization Cytoplasmic	Mild
Note: VACUOLIZ CYTO TGLs = 2-11			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4			
Nose	Turbinates	Thrombosis	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-12			
Stomach	Forestomach	Erosion	Minimal
	Glandular	Erosion	Minimal
Note: EROSION TGLs = 7-6			
Note: EROSION TGLs = 7-6			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28649

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Minimal

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 3-8

Liver

Angiectasis

Mild

Cytologic Alterations

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: ANGIECTASIS TGLs = 6-5

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 7-10

Spleen

Leukemia Mononuclear

Pigmentation

Minimal

Note: PIGMENT TGLs = 2-5

Note: LEUKEMIA MONUC TGLs = 1-5

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 4,5-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28650

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: 12500PPMMALE

DISP: Terminal Sacrifice

HISTO: 28650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Parathyroid Gland

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Malignant

Multiple

Note: PHEOCHROM MAL TGLs = 3-3

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 1-8

Lymph Node

Mesenteric

Cyst

Mild

Mediastinal

Hemorrhage

Minimal

Note: CYST TGLs = 7-9

[Cyst TGLS = 6-13]

Parathyroid Gland

Note: NCL

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 2-10

Skin

Keratoacanthoma

Note: KERATOACANTHOMA TGLs = 4-14

Testes

Interstitial Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 8-10

PRIMARY CAUSE OF DEATH

-

Animal Note: NCL

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28653

TRT#: 2

SEX: Male

DAY ON TEST: 609

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28653

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Brain			
Note: AN ARTIFACT IS OBSERVED.			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Squamous Cell Carcinoma	Metastatic (Zymbal'S Gland)
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 2-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Note: NCL			
Note: FOCAL CONGESTION. NO DX.			
Stomach	Glandular	Erosion	Minimal
Note: EROSION TGLs = 6-15			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 4-5			
Thymus			
Note: NCL			
Zymbal's Gland		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-15			
Note: THE CARCINOMA LIKELY AROSE FROM THIS ORGAN.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28654

TRT#: 2

SEX: Male

DAY ON TEST: 687

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Seminal Vesicle

Stomach - Glandular

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Mild

Medulla

Pheochromocytoma Benign

Cortex

Vacuolization Cytoplasmic

Focal, Mild

[Vacuolization Cytoplasmic TGLS = 8-1]

Intestine Large

Cecum

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 6-15

Kidney

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 2-12

Liver

Congestion

Moderate

Note: HYPERPLASIA TGLs = 11-15

Note: CONGESTION TGLs = 3-11

Hyperplasia

Focal, Mild

Lymph Node

Mesenteric

Hemorrhage

Marked

Note: HEMORRHAGE TGLs = 7-1

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 9-1

Spleen

Histiocytic Sarcoma

Note: HISTIO SARC TGLs = 1-15

Stomach

Forestomach

Edema

Moderate

Note: EDEMA TGLs = 10-6

Testes

Interstit Cell

Adenoma

Multiple

Note: ATROPHY TGLs = 5-5

Note: ADENOMA TGLs = 4-5

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28655

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Lung

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Minimal

Medulla

Leukemia Mononuclear

Kidney

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 3-8

Liver

Angiectasis

Mild

Cytologic Alterations

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: ANGIECTASIS TGLs = 6-5

Note: CYTOLOGC ALTER TGLs = 5-5

Note: LEUKEMIA MONUC TGLs = 7-5

Lung

Note: NCL

Spleen

Fibrosis

Focal, Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-5

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Minimal

Note: ATROPHY TGLs = 9-10

Note: ADENOMA TGLs = 8,10-10

Thyroid Gland

C Cell

Carcinoma

Note: CARCINOMA TGLs = 2-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28656

TRT#: 2

SEX: Male

DAY ON TEST: 733

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Mild

Medulla

Pheochromocytoma Benign

Kidney

Leukemia Mononuclear

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 5-8

Liver

Angiectasis

Mild

Cytologic Alterations

Bile Duct

Hyperplasia

Cystic, Moderate

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: HYPERPLASIA TGLs = 2-5,13

Note: LEUKEMIA MONUC TGLs = 3-5,13

Note: CYTOLOGC ALTER TGLs = 4-5,13

Lung

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 9-6,7

Lymph Node

Mediastinal

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 11-15

Note: LEUKEMIA MONUC TGLs = 10-14

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 6-10

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-5

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 7,8-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28658

TRT#: 2

SEX: Male

DAY ON TEST: 663

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Pituitary Gland

Seminal Vesicle

Testes

OBSERVATIONS

Adrenal Gland

Cortex

Leukemia Mononuclear

Medulla

Leukemia Mononuclear

Medulla

Pheochromocytoma Malignant

[Leukemia Mononuclear TGLs = 2-1]

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 4-12

Liver

Angiectasis

Mild

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-11

Lung

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-4

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-12

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28659

TRT#: 2

SEX: Male

DAY ON TEST: 683

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Multiple

Note: THE LESIONS ARE OF QUESTIONABLE MALIGNANCY.

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 6-12

Liver

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-11

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-12

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Mild

Note: ATROPHY TGLs = 3-5

Note: ADENOMA TGLs = 4-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28660

TRT#: 2

SEX: Male

DAY ON TEST: 521

DOSE: 12500PPMALE

DISP: Dead

HISTO: 28660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
Note: PIGMENT TGLs = 4-12		Pigmentation	Minimal
Liver		Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 6-15		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-15			
Nose	Sinus	Inflammation	Acute, Minimal
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Stomach	Glandular	Erosion	Mild
	Forestomach	Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28660

TRT#: 2

SEX: Male

DAY ON TEST: 521

DOSE: 12500PPMALE

DISP: Dead

HISTO: 28660

ORGAN AND ACCOUNTABLE SITE STATUS

Note: EROSION TGLs = 7-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28661

TRT#: 2

SEX: Male

DAY ON TEST: 734

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Minimal

Medulla

Pheochromocytoma Benign

Heart

Cardiomyopathy

Mild

Note: CARDIOMYOPATHY TGLs = 8-4

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 5-8

Liver

Angiectasis

Mild

Cytologic Alterations

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: CYTOLOGIC ALTER TGLs = 10-5

Note: ANGIECTASIS TGLs = 9-5

Preputial Gland

Adenoma

Note: ADENOMA TGLs = 7-10,13

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 4-10

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-5

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Mild

Note: ADENOMA TGLs = 1,3-10

Note: ATROPHY TGLs = 2-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28662

TRT#: 2

SEX: Male

DAY ON TEST: 653

DOSE: 12500PPMMALE

DISP: Moribund

HISTO: 28662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Pituitary Gland

Seminal Vesicle

Stomach - Forestomach

Stomach - Glandular

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Mild

Cortex

Vacuolization Cytoplasmic

Focal, Minimal

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 7-12

Liver

Bile Duct

Hyperplasia

Mild

Hyperplasia

Focal, Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-11

Lung

Infiltration Cellular

Histiocyte, Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2,3,4,9-4

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-12

Stomach

Note: NCL

Testes

Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28663

TRT#: 2

SEX: Male

DAY ON TEST: 725

DOSE: 12500PPMMALE

DISP: Moribund

HISTO: 28663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Parathyroid Gland	Thyroid Gland	
OBSERVATIONS			
Adrenal Gland	Medulla	Hyperplasia	Marked
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Note: THROMBUS TGLs = 7-4	Atrium	Thrombosis	Moderate
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 13-8			
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Moderate
Note: ANGIECTASIS TGLs = 5-5		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-5			
Lymph Node	Mesenteric	Cyst	
	Axillary	Hyperplasia	Lymphoid, Mild
Note: CYST TGLs = 14-9	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-15			
Note: HYPERPLASIA TGLs = 2-13			
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 1-13			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 6-14			
Parathyroid Gland			
Note: NCL			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28663

TRT#: 2

SEX: Male

DAY ON TEST: 725

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28663

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Mild

Note: ATROPHY TGLs = 9-10

Note: ADENOMA TGLs = 8-10

Thymus

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 11-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28664

TRT#: 2

SEX: Male

DAY ON TEST: 734

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Spleen

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Mild

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 4-8

Liver

Cytologic Alterations

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Mild

Note: HDN TGLs = 7-5

Note: CYTOLOGC ALTER TGLs = 6,8-13

Lung

Hyperplasia

Adenomatous, Mild

Note: HYPERPLASIA TGLs = 10-6,7

Lymph Node

Mediastinal

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 9-14

Pituitary Gland

Pars Distalis

Cyst

Mild

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 5-10

Testes

Interstitial Cell

Adenoma

Multiple

Note: ATROPHY TGLs = 2-10

Note: ADENOMA TGLs = 1,3-10

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28665

TRT#: 2

SEX: Male

DAY ON TEST: 583

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung	Interstitial	Inflammation	Chronic, Mild
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-15		
Nose	Sinus	Fungus	Mild
	Sinus	Inflammation	Acute, Moderate
Prostate		Inflammation	Acute, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-12		
Testes	Interstitial Cell	Adenoma	
		Atrophy	Moderate
Note: ADENOMA	TGLs = 2-5		
Note: ATROPHY	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28667

TRT#: 2

SEX: Male

DAY ON TEST: 658

DOSE: 12500PPMMALE

DISP: Dead

HISTO: 28667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pituitary Gland

Spleen

AUTO PRECLUDES DIAG.

Seminal Vesicle

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Liver

Bile Duct

Hyperplasia

Minimal

Skin

Edema

Mild

Keratoacanthoma

Subcut Tiss

Sarcoma

Note: KERATOACANTHMA TGLs = 4-15

Note: EDEMA TGLs = 1-15

Note: SARCOMA TGLs = 2-15

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28668

TRT#: 2

SEX: Male

DAY ON TEST: 663

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Seminal Vesicle

OBSERVATIONS

Adrenal Gland

Medulla

Leukemia Mononuclear

Medulla

Pheochromocytoma Benign

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 3-12

Liver

Angiectasis

Mild

Note: LEUKEMIA MONUC TGLs = 2-11,15

Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-12

Stomach

Glandular

Erosion

Mild

Forestomach

Inflammation

Acute, Mild

Note: INFLAMMATION TGLs = 5-6

Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Minimal

Note: ADENOMA TGLs = 4-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28669

TRT#: 2

SEX: Male

DAY ON TEST: 725

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

OBSERVATIONS

Adrenal Gland

Medulla

Leukemia Mononuclear

Medulla

Pheochromocytoma Benign

Multiple

Liver

Bile Duct

Cytologic Alterations

Hyperplasia

Mild

Leukemia Mononuclear

Note: HYPERPLASIA TGLs = 5-5

Note: LEUKEMIA MONUC TGLs = 4-5

Lung

Hyperplasia

Adenomatous, Mild

Leukemia Mononuclear

Note: HYPERPLASIA TGLs = 8-6,7

Note: LEUKEMIA MONUC TGLs = 8-6,7

Lymph Node

Axillary

Leukemia Mononuclear

Iliac

Leukemia Mononuclear

Mandibular

Leukemia Mononuclear

Mediastinal

Leukemia Mononuclear

Renal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 9-16

Note: LEUKEMIA MONUC TGLs = 13-15

Note: LEUKEMIA MONUC TGLs = 12-14

Note: LEUKEMIA MONUC TGLs = 11-13

Note: LEUKEMIA MONUC TGLs = 2-2

Pituitary Gland

Pars Distalis

Cyst

Mild

Pars Distalis

Hyperplasia

Mild

Pars Distalis

Leukemia Mononuclear

Skin

Cyst

Note: CYST TGLs = 1-18

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-17

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28669

TRT#: 2

SEX: Male

DAY ON TEST: 725

DOSE: 12500PPMALE

DISP: Moribund

HISTO: 28669

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Mild

Note: ADENOMA TGLs = 6-10

Note: ATROPHY TGLs = 7-10

Thymus

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 10-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28670

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 12500PPMALE

DISP: Terminal Sacrifice

HISTO: 28670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Pituitary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Kidney

Fibrosis

Focal, Mild

Leukemia Mononuclear

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 7-8

Note: FIBROSIS TGLs = 6-8

Liver

Cytologic Alterations

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Leukemia Mononuclear

Lung

Note: LEUKEMIA MONUC TGLs = 10-6,7

Lymph Node

Mediastinal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 9-14

Mesentery

Fat

Necrosis

Mild

Note: NECROSIS TGLs = 11-15

Seminal Vesicle

Atrophy

Mild

Note: ATROPHY TGLs = 8-10

Spleen

Infarct

Mild

Leukemia Mononuclear

Note: INFARCT TGLs = 2-13

Note: LEUKEMIA MONUC TGLs = 1-5

Testes

Interstitial Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 4,5-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28731

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28731

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	Larynx	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Liver		Angiectasis	Minimal
		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Mild
Mammary Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-3			
Spleen		Congestion	Mild
		Infiltration Cellular	Histiocyte, Mild
Note: INFILTRAT CELL TGLs = 3-5			
Note: CONGESTION TGLs = 2-5			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 4-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28732

TRT#: 3

SEX: Male

DAY ON TEST: 565

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Parathyroid Gland
Salivary Glands
Thymus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Skin
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Pancreas
Seminal Vesicle
 Note: INFLAMMATION TGLs = 4-15
Spleen
 Note: LEUKEMIA MONUC TGLs = 1-12
Testes
 Note: ADENOMA TGLs = 3-5

Centrilobular
Acinus

Interstit Cell

Hyperplasia
Cardiomyopathy
Nephropathy
Leukemia Mononuclear
Vacuolization Cytoplasmic
Atrophy
Inflammation

Leukemia Mononuclear

Adenoma

Mild
Minimal
Minimal

Moderate
Focal, Minimal
Acute, Moderate

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28733

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMMALE

DISP: Terminal Sacrifice

HISTO: 28733

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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM MAL TGLs = 6-3	Medulla	Pheochromocytoma Malignant	
Heart		Cardiomyopathy	Mild
Kidney Note: NEPHROPATHY TGLs = 4-8		Nephropathy	Moderate
Liver		Angiectasis	Minimal
		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Adenomatous, Mild
Lung Note: HYPERPLASIA TGLs = 8-13			
Pancreas	Acinus	Atrophy	Focal, Minimal
Prostate		Hyperplasia	Focal, Mild
		Inflammation	Acute, Minimal
Seminal Vesicle Note: ATROPHY TGLs = 5-10		Atrophy	Mild
Testes Note: ATROPHY TGLs = 2-10 Note: ADENOMA TGLs = 1,3-10	Interstitial Cell	Adenoma	Multiple
		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28734

TRT#: 3

SEX: Male

DAY ON TEST: 563

DOSE: 25000PPMALE

DISP: Dead

HISTO: 28734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
-------------------------	-------------------------	--------------------------

OBSERVATIONS

Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-12		
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
Note: LEUKEMIA MONUC	TGLs = 2-11		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-4,15		
Lymph Node	Mesenteric	Cyst	Mild
Nose	Sinus	Fungus	Moderate
	Sinus	Inflammation	Acute, Moderate
Pituitary GI			
Note: SLIGHT PIGMENTATION IS OBSERVED WHICH			
Note: ACCOUNTS FOR THE GROSS FINDING			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-12		
Stomach	Glandular	Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 4-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28734

TRT#: 3

SEX: Male

DAY ON TEST: 563

DOSE: 25000PPMALE

DISP: Dead

HISTO: 28734

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28735

TRT#: 3

SEX: Male

DAY ON TEST: 663

DOSE: 25000PPMMALE

DISP: Moribund

HISTO: 28735

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	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 3-12			
Liver	Bile Duct	Hyperplasia	Mild
Note: LEUKEMIA MONUC TGLs = 2-11		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4,15			
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-12			
Stomach	Forestomach	Edema	Moderate
	Glandular	Erosion	Mild
Note: EDEMA TGLs = 7-6			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA TGLs = 4-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28736

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Preputial Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 6-8			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-5			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 7-10			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-13			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ATROPHY TGLs = 3-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28736

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28736

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 4,5-10

Thymus

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8-14

Thyroid Gland

C Cell

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28737

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28737

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 5-8			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
Note: CENTRIOBULAR AREAS ARE COLLAPSED PROBABLY ACCOUNTING			
Note: FOR THE DEPRESSED LESION.			
Note: NECROSIS TGLs = 7-15			
Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 11-14			
Mesentery	Fat	Necrosis	Mild
Note: NECROSIS TGLs = 10-17			
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 9-16			
Prostate		Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 8-13			
Salivary Glands		Inflammation	Chronic, Minimal
Seminal Vesicle		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28737

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28737

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-5

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 1,3-10

Note: ATROPHY TGLs = 2-10

Atrophy

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28738

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Note: CARDIOMYOPATHY TGLs = 8-4			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-8			
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Mild
Note: LEUKEMIA MONUC TGLs = 6-5		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 12-6,7			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mandibular	Hyperplasia	Lymphoid, Minimal
Note: HEMORRHAGE TGLs = 11-14			
Note: HYPERPLASIA TGLs = 3-2			
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 7-8			
Skin	Epithelium, Lip	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 14-16			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28738

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMMALE

DISP: Terminal Sacrifice

HISTO: 28738

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 2-5			
Note: LEUKEMIA MONUC TGLs = 1-5			
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-10			
Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 10-3			
Zymbal's Gland		Adenoma	
Note: ADENOMA TGLs = 13-15			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28739

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMMALE

DISP: Terminal Sacrifice

HISTO: 28739

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	Larynx	Lymph Node - Mesenteric	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 5-8			
Liver		Angiectasis	Mild
		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Mild
Note: CYTOLOGC ALTER TGLs = 3-5			
Note: ANGIECTASIS TGLs = 4-5			
Lung		Pigmentation	Minimal
Note: PIGMENT TGLs = 10-6,7			
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 7-13			
Mammary Gland		Dilatation	Minimal
Pancreas	Acinus	Atrophy	Focal, Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 6-10			
Skin		Hyperkeratosis	Mild
Note: HYPERKERATOSIS TGLs = 8-14			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1,2-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28739

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28739

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28740

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMMALE

DISP: Terminal Sacrifice

HISTO: 28740

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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Kidney		Cyst	Minimal
		Nephropathy	Moderate
Note: CYST TGLs = 7-8			
Note: THE CYST IS IN THE CAPSULE.			
Note: NEPHROPATHY TGLs = 6-8			
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-5			
Note: ANGIECTASIS TGLs = 11-5			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-6,7			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: HEMORRHAGE TGLs = 12-13			
Pancreas	Acinus	Atrophy	Focal, Minimal
Seminal Vesicle		Atrophy	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28740

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28740

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Mild

Note: ADENOMA

TGLs = 3,4,5-10

Note: ATROPHY

TGLs = 5-10

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28742

TRT#: 3

SEX: Male

DAY ON TEST: 588

DOSE: 25000PPMMALE

DISP: Moribund

HISTO: 28742

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 - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mesenteric	Edema	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC	TGLs = 1-15		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 3-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28744

TRT#: 3

SEX: Male

DAY ON TEST: 551

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	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	Seminal Vesicle	Skin
Thyroid Gland	Trachea		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Thrombosis	Mild
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
Note: LEUKEMIA MONUC	TGLs = 4-12		
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-11		
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-1		
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Inflammation	Acute, Minimal
Prostate		Inflammation	Acute, Minimal
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-12		
Stomach	Forestomach	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28744

TRT#: 3

SEX: Male

DAY ON TEST: 551

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28744

ORGAN AND ACCOUNTABLE SITE STATUS

Glandular

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-15

Testes
Interstitial Cell

Adenoma

Multiple

Testes

Note: ADENOMA TGLs = 5-5

Thymus

Leukemia Mononuclear

Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28747

TRT#: 3

SEX: Male

DAY ON TEST: 508

DOSE: 25000PPMALE

DISP: Dead

HISTO: 28747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Islets, Pancreatic	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Seminal Vesicle
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OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Brain		Thrombosis	Mild
Note: THROMBUS TGLs = 7-10			
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-12			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-4			
Lymph Node	Mesenteric	Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-12			
Stomach	Glandular	Erosion	Minimal
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 4,5-5			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28748

TRT#: 3

SEX: Male

DAY ON TEST: 624

DOSE: 25000PPMMALE

DISP: Moribund

HISTO: 28748

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	Lung	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Islets, Pancreatic		Carcinoma	
Note: CARCINOMA	TGLs = 1-15		
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 2-12		
Liver		Congestion	Mild
	Bile Duct	Hyperplasia	Minimal
Nose	Nasolacrim Dct	Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-1		
Spleen		Congestion	Mild
Stomach	Glandular	Inflammation	Acute, Mild
	Forestomach	Squamous Cell Papilloma	
Note: INFLAMMATION	TGLs = 4-6,15		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28749

TRT#: 3

SEX: Male

DAY ON TEST: 676

DOSE: 25000PPMMALE

DISP: Moribund

HISTO: 28749

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	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Prostate	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
		Nephropathy	Mild
Liver	Centrilobular	Vacuolization Cytoplasmic	Mild
Note: VACUOLIZ CYTO TGLs = 6-11			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 8-15			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 1-15			
Skin		Trichoepithelioma	
Note: TRICHOEPITHEL TGLs = 2-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Erosion	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA TGLs = 3,5-5			
Note: ATROPHY TGLs = 4-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28749

TRT#: 3

SEX: Male

DAY ON TEST: 676

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28749

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28750

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMMALE

DISP: Terminal Sacrifice

HISTO: 28750

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
Larynx	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Carcinoma	
Note: CARCINOMA	TGLs = 1-2		
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 8-8		
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Neoplastic Nodule	
Note: HDN	TGLs = 2,3,4-5,15		
Lung	Mediastinum	Alveolar/Bronchiolar Carcinoma	
		Alveolar/Bronchiolar Carcinoma	Multiple
Note: ALV BRON CARC	TGLs = 10-13		
Note: ALV BRON CARC	TGLs = 9,11-6,7,14		
Lymph Node	Mandibular	Hemorrhage	Mild
Pancreas	Acinus	Atrophy	Focal, Mild
Prostate		Inflammation	Acute, Mild
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 7-10		
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28750

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28750

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 5,6-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28751

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Epididymis		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 4-10			
Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Mild
Note: THROMBUS TGLs = 10-4			
Kidney		Mesothelioma Malignant	
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 7-8			
Liver		Angiectasis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mesothelioma Malignant	
Note: ANGIECTASIS TGLs = 13-5			
Note: MESOTHELIO MAL TGLs = 12-5			
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 18-14			
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 2,3,5-8,3,9,16			
Pancreas		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 8-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28751

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMMALE

DISP: Terminal Sacrifice

HISTO: 28751

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Cyst	Mild
Seminal Vesicle		Atrophy	Mild
Skin		Mesothelioma Malignant	
		Squamous Cell Papilloma	
Note: SQ CL PAPILLOM TGLs = 1-15			
Note: THE PAPILLOMA APPEARS TO BE OF FOLLICULAR ORIGIN.			
Spleen		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 9-5			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
		Mesothelioma Malignant	
Note: ATROPHY TGLs = 14-10			
Note: ADENOMA TGLs = 15,16-10			
Tongue	Epithelium	Hyperplasia	Minimal
Note: HYPERPLASIA TGLs = 17-13			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28752

TRT#: 3

SEX: Male

DAY ON TEST: 720

DOSE: 25000PPMMALE

DISP: Dead

HISTO: 28752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Bone Marrow		Leukemia Mononuclear	
Eye	Sclera	Metaplasia	Osseous, Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 13-8			
Liver	Bile Duct	Angiectasis	Mild
		Hyperplasia	Mild
		Leukemia Mononuclear	
Note: NEOPLASTIC NOD TGLs = 16-5		Neoplastic Nodule	Multiple
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 12-6,7			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Inguinal	Hyperplasia	Lymphoid, Mild
	Renal	Inflammation	Chronic, Mild
	Mandibular	Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 19-14			
Note: LEUKEMIA MONUC TGLs = 7-2			
Note: HYPERPLASIA TGLs = 4-17			
Note: INFLAMMATION TGLs = 15-18			
Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28752

TRT#: 3

SEX: Male

DAY ON TEST: 720

DOSE: 25000PPMMALE

DISP: Dead

HISTO: 28752

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROADENOMA	TGLs = 1-16			
Pancreas		Acinus	Atrophy	Focal, Minimal
Preputial Gland			Carcinoma	
Note: CARCINOMA	TGLs = 3-15			
Seminal Vesicle			Atrophy	Mild
Note: ATROPHY	TGLs = 14-10			
Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-5			
Testes		Interstit Cell	Adenoma	Multiple
			Atrophy	Mild
Note: ADENOMA	TGLs = 10,11-10			
Note: ATROPHY	TGLs = 9-10			
Tongue		Epithelium	Hyperplasia	Mild
			Inflammation	Chronic, Moderate
Note: HYPERPLASIA	TGLs = 6-13			
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28753

TRT#: 3

SEX: Male

DAY ON TEST: 613

DOSE: 25000PPMALE

DISP: Dead

HISTO: 28753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Colon	Intestine Small - Duodenum	Islets, Pancreatic	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum
Seminal Vesicle	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Note: THROMBUS	TGLs = 3-10,15	Thrombosis	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Nose	Sinus	Inflammation	Acute, Minimal
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-12		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-5		
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28754

TRT#: 3

SEX: Male

DAY ON TEST: 683

DOSE: 25000PPMMALE

DISP: Moribund

HISTO: 28754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	Multiple
Bone Marrow		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Note: THROMBUS TGLs = 7-9	Atrium	Thrombosis	Moderate
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 6-12			
Liver	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-11			
Lung		Leukemia Mononuclear	
Nose	Sinus	Inflammation	Acute, Mild
Pancreas	Acinus	Atrophy	Diffuse, Mild
Preputial Gland		Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ATROPHY TGLs = 3-5			
Note: ADENOMA TGLs = 4-5			
Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28754

TRT#: 3

SEX: Male

DAY ON TEST: 683

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28754

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28755

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28755

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	Larynx	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Stomach - Forestomach

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 3-8		
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 1,2-5		
Note: ANGIECTASIS	TGLs = 2-5		
Lymph Node	Mandibular	Cyst	Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
Preputial Gland		Fibrosarcoma	
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 7-10		
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ATROPHY	TGLs = 4-10		
Note: ADENOMA	TGLs = 5,6-10		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28755

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28755

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28756

TRT#: 3

SEX: Male

DAY ON TEST: 644

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28756

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 - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
Note: LEUKEMIA MONUC	TGLs = 8-12		
Liver	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-11		
Lung		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-15		
Note: LEUKEMIA MONUC	TGLs = 1-15		
	[Leukemia Mononuclear TGLS = 2-15]		
	[Leukemia Mononuclear TGLS = 4-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28756

TRT#: 3

SEX: Male

DAY ON TEST: 644

DOSE: 25000PPMMALE

DISP: Moribund

HISTO: 28756

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 5-15]

Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Leukemia Mononuclear	
Note: ADENOMA	TGLs = 12-1		
Preputial Gland		Inflammation	Acute, Mild
Seminal Vesicle		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-12		
Stomach	Glandular	Leukemia Mononuclear	
	Glandular	Ulcer	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA	TGLs = 10-5		
Note: ATROPHY	TGLs = 9-5		
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28757

TRT#: 3

SEX: Male

DAY ON TEST: 704

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Larynx	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Malignant	Multiple
Note: PHEOCHROM MAL TGLs = 5-3			
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Vacuolization Cytoplasmic	Moderate
Note: VACUOLIZ CYTO TGLs = 4-5			
Lung		Fibrosis	Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Nose			
Note: PAPILLARY FRONDS ARE FOUND IN THE NASAL SINUS. NO ATTACHMENT IS OBSERVED. ARTIFACT.			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 1-3			
Seminal Vesicle		Atrophy	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28757

TRT#: 3

SEX: Male

DAY ON TEST: 704

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28757

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 6-10

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28758

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMMALE

DISP: Terminal Sacrifice

HISTO: 28758

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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 2-8		
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
Note: CYTOLOGC ALTER	TGLs = 1-5		
Lung		Hyperplasia	Adenomatous, Mild
Note: HYPERPLASIA	TGLs = 7-6		
Lymph Node	Mandibular	Cyst	Mild
	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 6-13		
Nose	Sinus	Fungus	Moderate
	Nasolacrim Dct	Inflammation	Acute, Mild
	Sinus	Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Squamous Cell Papilloma	
Seminal Vesicle		Atrophy	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA	TGLs = 3,4-10		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28758

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28758

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28759

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMMALE

DISP: Terminal Sacrifice

HISTO: 28759

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	Larynx	Lung	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 5-8			
Liver		Angiectasis	Minimal
		Cytologic Alterations	Multiple
		Hepatodiaphragmatic Nodule	
		Neoplastic Nodule	
Note: HDN TGLs = 2-5			
Note: CYTOLOGC ALTER TGLs = 3-5,13			
Note: NEOPLASTIC NOD TGLs = 4-13			
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mesenteric	Hemorrhage	Moderate
[Hemorrhage TGLS = 9-3]			
[Hemorrhage TGLS = 11-9]			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-14			
Pituitary Gland	Pars Distalis	Cyst	Mild
[Cyst TGLS = 10-3]			
Seminal Vesicle		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28759

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28759

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ATROPHY TGLs = 6-10

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 8-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28760

TRT#: 3

SEX: Male

DAY ON TEST: 644

DOSE: 25000PPMMALE

DISP: Moribund

HISTO: 28760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM BGN TGLs = 5-1	Medulla	Pheochromocytoma Benign	Multiple
Bone Marrow		Leukemia Mononuclear	
Heart Note: LEUKEMIA MONUC TGLs = 6-9		Leukemia Mononuclear	
Kidney Note: LEUKEMIA MONUC TGLs = 7-12		Leukemia Mononuclear Nephropathy	Minimal
Liver Note: HDN TGLs = 2-15	Bile Duct	Hepatodiaphragmatic Nodule Hyperplasia Leukemia Mononuclear	Moderate
Lung Note: LEUKEMIA MONUC TGLs = 8-4,15		Leukemia Mononuclear	
Lymph Node Note: LEUKEMIA MONUC TGLs = 10-15	Axillary	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 13-15	Iliac	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 12-15	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 14-15	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28760

TRT#: 3

SEX: Male

DAY ON TEST: 644

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28760

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 11-15]

Nose

Note: NO DX.

Note: NOSE-AN ARTIFACTUAL CUT IS FOUND IN THE NASAL SINUS.

Pancreas

Acinus

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Preputial Gland

Inflammation

Acute, Minimal

Leukemia Mononuclear

Seminal Vesicle

Leukemia Mononuclear

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-12

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 4-5

Note: ATROPHY TGLs = 3-5

Atrophy

Mild

Thymus

Leukemia Mononuclear

Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28762

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMMALE

DISP: Terminal Sacrifice

HISTO: 28762

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	Larynx	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 6-8			
Liver		Cytologic Alterations	Multiple
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
Note: HDN TGLs = 3-5			
Lung		Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 5-6,7			
Note: LUNG-THE PLEURAL LYMPHOID HYPERPLASIA WAS PIGMENTED.			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 2-13			
Pituitary Gland	Pars Distalis	Adenoma	
Seminal Vesicle		Atrophy	Mild
Spleen		Fibrosis	Focal, Moderate
Note: FIBROSIS TGLs = 1-5			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 4-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28764

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28764

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Larynx	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Mild
Liver		Angiectasis	Minimal
		Cytologic Alterations	Multiple
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
Note: ANGIECTASIS TGLs = 8-5			
Note: HDN TGLs = 6,7-5			
Lymph Node	Mandibular	Cyst	Mild
Pancreas	Acinus	Hyperplasia	Focal, Mild
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 5-10			
Spleen		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-5			
Note: FIBROSIS TGLs = 2-5			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 3,4-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28765

TRT#: 3

SEX: Male

DAY ON TEST: 555

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	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 - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Focal, Mild
Bone Marrow		Hyperplasia	Moderate
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 4-12			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Vacuolization Cytoplasmic	Moderate
Note: VACUOLIZ CYTO TGLs = 6-11			
Lung		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Focal, Minimal
Prostate		Inflammation	Acute, Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-12			
Stomach	Glandular	Ulcer	Minimal
Note: ULCER TGLs = 7-15			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA TGLs = 5-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28766

TRT#: 3

SEX: Male

DAY ON TEST: 697

DOSE: 25000PPMALE

DISP: Dead

HISTO: 28766

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Developmental Malformation	
		Nephropathy	Mild
Note: DEVELOP MALFOR	TGLs = 8-15		
Note: NEPHROPATHY	TGLs = 4-12		
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Vacuolization Cytoplasmic	Mild
		Fibrous Histiocytoma	
Mesentery			
Note: FIB HISTIOCYT	TGLs = 2-15		
Pituitary Gland		Pars Distalis	
Preputial Gland		Bilateral	
Note: CARCINOMA	TGLs = 1-15		
Prostate		Inflammation	Acute, Mild
Skin		Fibroma	
Note: FIBROMA	TGLs = 6-15		
Spleen		Depletion Lymphoid	Mild
		Hematopoietic Cell Proliferation	Mild
Stomach		Ulcer	Mild
Note: ULCER	TGLs = 7-15		
Testes		Adenoma	Multiple
Note: ADENOMA	TGLs = 3-5		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28766

TRT#: 3

SEX: Male

DAY ON TEST: 697

DOSE: 25000PPMALE

DISP: Dead

HISTO: 28766

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28768

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	Multiple
Bone Marrow		Neuroblastoma	Metastatic (Adrenal Gland)
Heart		Cardiomyopathy	Mild
Kidney	Renal Tubule	Adenoma	
Note: NEPHROPATHY TGLs = 10-8		Nephropathy	Moderate
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Focal, Mild
Note: LEUKEMIA MONUC TGLs = 7-5		Leukemia Mononuclear	
Note: NEUROBLAST MAL TGLs = 8-15		Neuroblastoma	Metastatic (Adrenal Gland)
Lung		Leukemia Mononuclear	
		Neuroblastoma	Metastatic (Adrenal Gland)
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-13			
Pancreas	Acinus	Atrophy	Diffuse, Moderate
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 6-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28768

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28768

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Leukemia Mononuclear

Neuroblastoma

Metastatic (Adrenal Gland)

Note: LEUKEMIA MONUC TGLs = 1-5,14

Note: NEUROBLAST MAL TGLs = 2-14

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

Note: ATROPHY TGLs = 4-10

Note: ADENOMA TGLs = 3-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28769

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28769

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Dilatation	Mild
		Nephropathy	Moderate
Note: DILATATION TGLs = 5-8			
Note: NEPHROPATHY TGLs = 3-8			
Note: KIDNEY-CYST NOT OBSERVED ON RECUT NOR WET TISSUES.			
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
		Neoplastic Nodule	
Note: CYTOLOGIC ALTER TGLs = 2-5			
Note: NEOPLASTIC NOD TGLs = 1-5			
Lung	Interstitial	Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 10-3			
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Acute, Minimal
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 6-10			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 7,8-10			
Thyroid Gland	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28769

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28769

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 9-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28771

TRT#: 3

SEX: Male

DAY ON TEST: 491

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28771

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Glandular
Thyroid Gland	Urinary Bladder		

MISSING

Preputial Gland

OBSERVATIONS

Heart		Sarcoma	Metastatic (Skin)
Kidney	Renal Tubule	Degeneration Nephropathy	Marked Minimal
Note: DEGEN TGLs = 6-12			
Note: NEPHROPATHY TGLs = 5-12			
Lung		Sarcoma	Metastatic (Skin)
Note: SARCOMA TGLs = 9-15			
Lymph Node	Iliac, Inguinal, Renal	Sarcoma	Metastatic (Skin)
Note: SARCOMA TGLs = 2-15			
Note: SARCOMA TGLs = 7-15			
Note: SARCOMA TGLs = 10-15			
Note: SARCOMA TGLs = 8-15			
Nose	Sinus	Fungus	Moderate
	Sinus	Inflammation	Acute, Moderate
Skin	Subcut Tiss	Sarcoma	
Note: SARCOMA TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 3-12			
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
Testes		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28771

TRT#: 3

SEX: Male

DAY ON TEST: 491

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28771

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Minimal

Note: ATROPHY TGLs = 4-5

Thymus

Sarcoma

Metastatic (Skin)

Trachea

Sarcoma

Metastatic (Skin)

PRIMARY CAUSE OF DEATH

-

Animal Note: THE SARCOMA, NOS MOST LIKELY IS A HISTIOCYTIC SARCOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28772

TRT#: 3

SEX: Male

DAY ON TEST: 635

DOSE: 25000PPMALE

DISP: Dead

HISTO: 28772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	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
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
		Thrombosis	Moderate
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-11		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-4		
Lymph Node	Mesenteric	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1-15		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-12		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 4-5		
Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28772

TRT#: 3

SEX: Male

DAY ON TEST: 635

DOSE: 25000PPMALE

DISP: Dead

HISTO: 28772

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28774

TRT#: 3

SEX: Male

DAY ON TEST: 658

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Brain		Astrocytoma Malignant	
Heart		Cardiomyopathy	Mild
Kidney		Cyst	Mild
		Nephropathy	Moderate
Liver		Congestion	Mild
	Bile Duct	Hyperplasia	Mild
Note: CONGESTION	TGLs = 1-11		
Mammary Gland		Dilatation	Minimal
Nose	Sinus	Inflammation	Acute, Mild
Stomach			
Note: SUGGESTING ARTIFACT AS A CAUSE OF THE STOMACH LESION.			
Note: STOMACH-THE MUSCULARIS IS MISSING FROM ONE PORTION			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28775

TRT#: 3

SEX: Male

DAY ON TEST: 588

DOSE: 25000PPMMALE

DISP: Moribund

HISTO: 28775

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	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Liver		Angiectasis	Mild
		Cytologic Alterations	
	Bile Duct	Hyperplasia	Mild
Preputial Gland		Inflammation	Acute, Minimal
Prostate		Inflammation	Acute, Minimal
Skin		Trichoepithelioma	
Note: TRICHOEPITHEL TGLs = 1-15			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild

Note: ADENOMA TGLs = 2-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28776

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28776

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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-8			
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: ANGIECTASIS TGLs = 3-5			
Lung		Foreign Body	Mild
		Infiltration Cellular	Histiocyte, Mild
	Interstitial	Inflammation	Chronic, Mild
Nose	Sinus	Foreign Body	Mild
	Sinus	Inflammation	Acute, Moderate
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Hyperplasia	Mild
		Inflammation	Acute, Minimal
Seminal Vesicle		Atrophy	Mild
Skin	Subcut Tiss	Lipoma	
Note: LIPOMA TGLs = 7-13			
Spleen		Fibrosis	Focal, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28776

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28776

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 2-5

Note: LEUKEMIA MONUC TGLs = 1-5

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

Note: ATROPHY TGLs = 6-10

Note: ADENOMA TGLs = 5-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28777

TRT#: 3

SEX: Male

DAY ON TEST: 561

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Mammary Gland	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Seminal Vesicle

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Minimal
Heart		Leukemia Mononuclear	
Intestine Small	Jejunum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-12,15		
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-11		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-4,15		
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-15		
Note: LEUKEMIA MONUC	TGLs = 10-15		
Note: LEUKEMIA MONUC	TGLs = 3-1		
Nose	Sinus	Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28777

TRT#: 3

SEX: Male

DAY ON TEST: 561

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28777

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 9-1 Preputial Gland		Adenoma Inflammation Leukemia Mononuclear	Acute, Minimal
Note: LEUKEMIA MONUC TGLs = 1-15 Note: ADENOMA TGLs = 1-15 Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12 Stomach	Glandular	Pigmentation	Mild
Note: PIGMENT TGLs = 8-15 Testes	Interstit Cell	Hyperplasia Leukemia Mononuclear	Minimal
Note: LEUKEMIA MONUC TGLs = 5-3 Thymus			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28778

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28778

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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	Multiple
Heart		Cardiomyopathy	Minimal
Note: CARDIOMYOPATHY TGLs = 5-4			
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 4-8			
Liver	Bile Duct	Angiectasis	Moderate
		Hyperplasia	Mild
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: HYPERPLASIA TGLs = 6-5			
Note: NEOPLASTIC NOD TGLs = 7-5			
Note: LEUKEMIA MONUC TGLs = 8-5			
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Cyst	Mild
	Inguinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Mild
Note: HYPERPLASIA TGLs = 2-14			
Note: CYST TGLs = 2-14			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 12-3			
Preputial Gland	Bilateral	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28778

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28778

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 1-13

Prostate Hyperplasia Focal, Mild

Seminal Vesicle Atrophy Mild

Spleen Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-5

Testes Interstit Cell Adenoma Multiple

Atrophy Moderate

Note: ATROPHY TGLs = 10-10

Note: ADENOMA TGLs = 9,11-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28780

TRT#: 3

SEX: Male

DAY ON TEST: 520

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Complex	
Note: PHEOCHROM CPLX	TGLs = 6-15		
Brain		Leukemia Mononuclear	
		Thrombosis	Moderate
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
Note: NECROSIS	TGLs = 3-11		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-4		
Lymph Node	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-15		
Nose	Sinus	Foreign Body	Mild
	Sinus	Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28780

TRT#: 3

SEX: Male

DAY ON TEST: 520

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28780

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 2-12			
Stomach		Forestomach	Ulcer	Moderate
		Glandular	Ulcer	Moderate
Note: ULCER	TGLs = 8-6			
Note: ULCER	TGLs = 8-6			
Testes		Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-5			
Thyroid Gland		C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28781

TRT#: 3

SEX: Male

DAY ON TEST: 700

DOSE: 25000PPMMALE

DISP: Moribund

HISTO: 28781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Mesenteric
Nose	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Thymus	Thyroid Gland
Trachea			

MISSING

Islets, Pancreatic	Pancreas	Parathyroid Gland
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OBSERVATIONS

Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Mesothelioma Malignant	
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 6-12		
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Mild
Note: CYTOLOGIC ALTER	TGLs = 9-11,15		
Lung	Interstitium	Inflammation	Chronic, Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-15		
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL	TGLs = 3,4,5-15		
Seminal Vesicle		Mesothelioma Malignant	
Spleen		Hematopoietic Cell Proliferation	Mild
		Mesothelioma Malignant	
Stomach	Forestomach	Mesothelioma Malignant	
	Glandular	Mesothelioma Malignant	
Testes	Interstit Cell	Adenoma	Multiple
		Mesothelioma Malignant	
Note: ADENOMA	TGLs = 7,8-5		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28781

TRT#: 3

SEX: Male

DAY ON TEST: 700

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28781

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Mesothelioma Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28782

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Epididymis		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 6-10			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 2-8			
Liver		Angiectasis	Minimal
		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Mild
Note: ANGIECTASIS TGLs = 8-5			
Note: CYTOLOGC ALTER TGLs = 7-5			
Lung	Interstitium	Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Pigmentation	Mild
Note: PIGMENT TGLs = 9-13			
Mesentery		Mesothelioma Malignant	
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-10			
Seminal Vesicle		Atrophy	Mild
Skeletal Muscle	Diaphragm	Mesothelioma Malignant	
Spleen		Mesothelioma Malignant	
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28782

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28782

ORGAN AND ACCOUNTABLE SITE STATUS

Atrophy

Mild

Mesothelioma Malignant

Note: ADENOMA TGLs = 4,5-10,15

Note: MESOTHELIO MAL TGLs = 3-10,15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28783

TRT#: 3

SEX: Male

DAY ON TEST: 676

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28783

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	Lymph Node - Mesenteric	Mammary Gland	Nose
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Mild
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-11		
Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 6-15		
Pancreas	Acinus	Atrophy	Focal, Minimal
Parathyroid Gland		Hyperplasia	Mild
Spleen		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-12		
Testes	Interstitial Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA	TGLs = 5-5		
Note: ATROPHY	TGLs = 4-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28784

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 25000PPMMALE

DISP: Terminal Sacrifice

HISTO: 28784

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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 4-8			
Liver	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Minimal
Note: HYPERPLASIA TGLs = 2,3-5			
Lung	Interstitial	Inflammation	Chronic, Minimal
Note: INFLAMMATION TGLs = 5-6,7			
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Nervosa	Ectopic Tissue	
Note: CYST TGLs = 6-3			
Prostate		Hyperplasia	Focal, Mild
Seminal Vesicle		Atrophy	Mild
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 1-13			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 7-10			
Tongue		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 8-14			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28785

TRT#: 3

SEX: Male

DAY ON TEST: 718

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 5-3			
Brain		Leukemia Mononuclear	
		Thrombosis	Moderate
Note: THROMBUS TGLs = 4,11-1			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 6-8			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Vacuolization Cytoplasmic	Moderate
Note: VACUOLIZ CYTO TGLs = 3-5			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-6,7			
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 12-3			
Preputial Gland		Inflammation	Acute, Minimal
Prostate		Hyperplasia	Focal, Mild
Seminal Vesicle		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28785

TRT#: 3

SEX: Male

DAY ON TEST: 718

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28785

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ATROPHY TGLs = 7-10

Spleen

Fibrosis

Focal, Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-5

Note: FIBROSIS TGLs = 2-5

Stomach

Note: STOMACH-LESION NOT DISCERNED IN BLOCK OR IN WET TISSUE

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

Note: ADENOMA TGLs = 9-10

Note: ATROPHY TGLs = 8-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28786

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28786

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Larynx	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 5-8		
Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: ANGIECTASIS	TGLs = 3-5		
Note: HYPERPLASIA	TGLs = 4-5		
Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Hemorrhage	Mild
	Mediastinal	Pigmentation	Minimal
Note: HEMORRHAGE	TGLs = 6-14		
Note: PIGMENT	TGLs = 1-13		
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 9-10		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-5		
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28786

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28786

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 8-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28787

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Larynx
Nose
Preputial Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Pancreas
Prostate
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Kidney
 Note: NEPHROPATHY TGLs = 3-8
Liver
 Note: CYTOLOGC ALTER TGLs = 6-5
Seminal Vesicle
 Note: ATROPHY TGLs = 4-10
Testes
 Note: ADENOMA TGLs = 1,2-10

Bile Duct

Interstit Cell

Cardiomyopathy
Nephropathy

Cytologic Alterations
Hyperplasia

Atrophy

Adenoma

Minimal
Mild

Multiple
Minimal

Mild

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28788

TRT#: 3

SEX: Male

DAY ON TEST: 538

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Mammary Gland
Salivary Glands

Bone
Intestine Small - Ileum
Nose
Thyroid Gland

Brain
Intestine Small - Jejunum
Parathyroid Gland

Esophagus
Islets, Pancreatic
Pituitary Gland

OBSERVATIONS

Adrenal Gland
Bone Marrow
Epididymis
Heart
Intestine Large
Intestine Small
Kidney

Cortex
Colon
Rectum
Duodenum

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Cardiomyopathy
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Nephropathy

Mild

Minimal

Note: LEUKEMIA MONUC TGLs = 2-12

Liver
Lung
Lymph Node
Pancreas
Preputial Gland
Prostate
Seminal Vesicle
Skin
Spleen
Stomach
Testes

Bile Duct
Mesenteric
Forestomach
Glandular

Hyperplasia
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Atrophy
Leukemia Mononuclear

Mild

Moderate

Note: ATROPHY TGLs = 1-5

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28788

TRT#: 3

SEX: Male

DAY ON TEST: 538

DOSE: 25000PPMALE

DISP: Moribund

HISTO: 28788

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Leukemia Mononuclear

Trachea

Leukemia Mononuclear

Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28789

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28789

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	Larynx	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Kidney		Cyst	Moderate
		Fibrosis	Focal, Moderate
		Nephropathy	Mild
Note: FIBROSIS TGLs = 5-8			
Note: CYST TGLs = 5-8			
Note: NEPHROPATHY TGLs = 4-8			
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Mild
Note: CYTOLOGIC ALTER TGLs = 3-5			
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 7-10			
Prostate		Hyperplasia	Focal, Mild
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY TGLs = 8-10			
Spleen		Fibrosis	Focal, Mild
Note: FIBROSIS TGLs = 1,2-5			
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28789

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28789

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 6-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28790

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28790

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
Larynx	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Prostate

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Heart	Atrium	Cardiomyopathy	Minimal
		Thrombosis	Marked
Note: CARDIOMYOPATHY TGLs = 13-4			
Note: THROMBUS TGLs = 12-4			
Islets, Pancreatic		Adenoma	
		Hyperplasia	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 9,10-8			
Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Moderate
		Hyperplasia	Focal, Moderate
	Centrilobular	Necrosis	Marked
Note: NECROSIS TGLs = 3,4-5			
Note: HDN TGLs = 5-5			
Note: HYPERPLASIA TGLs = 6-5			
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 16-13			
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28790

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 25000PPMALE

DISP: Terminal Sacrifice

HISTO: 28790

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST	TGLs = 17-3		
Seminal Vesicle		Atrophy	Mild
Note: ATROPHY	TGLs = 11-10		
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 18-14		
Spleen		Amyloid Deposition	Marked
Note: AMYLOID DEP	TGLs = 1,2-5		
Testes		Adenoma	Multiple
		Interstit Cell	Minimal
Note: ADENOMA	TGLs = 8-10		
Note: ATROPHY	TGLs = 7-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28551

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 4-8			
Liver		Cytologic Alterations	Multiple
		Inflammation	Chronic, Mild
Note: CYTOLOGC ALTER TGLs = 2-5			
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 5-13			
Mammary Gland		Fibroadenoma	
Pancreas	Acinus	Atrophy	Focal, Minimal
Uterus		Inflammation	Chronic, Minimal
Vagina		Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 3-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28552

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Eye	Retina	Atrophy	Mild
	Lens Capsule	Cataract	Mild
	Sclera	Metaplasia	Osseous, Minimal
Note: CATARACT	TGLs = 2-13		
Note: ATROPHY	TGLs = 2-13		
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 9-8		
Liver	Bile Duct	Cytologic Alterations	Multiple
		Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: CENTRILOBULAR ATROPHY OF HEPATOCYTES IS OBSERVED			
Note: PROBABLY CAUSING THE MULTIPLE LESIONS.			
Note: CYTOLOGC ALTER	TGLs = 6,7,8-5		
Lymph Node	Mandibular	Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 4-2		
Ovary		Cyst	Mild
Note: CYST	TGLs = 10-10		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-3		
Skin	Subcut Tiss	Edema	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28552

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28552

ORGAN AND ACCOUNTABLE SITE STATUS

Subcut Tiss

Thrombosis

Multiple

Note: EDEMA TGLs = 1-15

Note: THROMBUS TGLs = 1-15

Spleen

Leukemia Mononuclear

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 11-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28553

TRT#: 4

SEX: Female

DAY ON TEST: 684

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28553

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Mammary Gland
Nose	Ovary	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Clitoral Gland		Inflammation	Acute, Mild
Liver		Cytologic Alterations	Multiple
		Mitotic Alteration	Marked
Lung		Adenocarcinoma	Metastatic (Skin)
Note: ADENOCARC	TGLs = 5-4,15		
Lymph Node	Axillary, Mediastinal, Mesenteric	Adenocarcinoma	Metastatic (Skin)
Note: ADENOCARC	TGLs = 3-15		
Note: ADENOCARC	TGLs = 6-3		
Pancreas	Acinus	Atrophy	Diffuse, Moderate
Skin	Sebaceous GI	Adenocarcinoma	
Note: ADENOCARC	TGLs = 1,2-15		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28555

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Larynx	Nose	Parathyroid Gland	Salivary Glands
Skin	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Focal, Mild
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 5-8			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Multifocal, Mild
Note: LEUKEMIA MONUC TGLs = 3-5			
Note: NECROSIS TGLs = 4-5			
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 6-13			
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Focal, Minimal
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,2-5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28555

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28555

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach

Forestomach

Leukemia Mononuclear

Glandular

Leukemia Mononuclear

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28556

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart	Atrium	Cardiomyopathy	Minimal
Note: THROMBUS TGLs = 6-4		Thrombosis	Mild
Kidney	Pelvis	Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 5-8		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule	
Note: HDN TGLs = 2-5		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: INFILTRAT CELL TGLs = 7-7			
Lymph Node	Mandibular	Cyst	Minimal
Ovary		Cyst	Mild
Note: CYST TGLs = 4-10			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 8-3	Pars Distalis	Hyperplasia	Minimal
Spleen		Congestion	Mild
Note: CONGESTION TGLs = 1-5			
Stomach	Glandular	Inflammation	Acute, Minimal
Urinary Bladder		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28556

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28556

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 3-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28557

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: CONTROL FEMALE

DISP: Dead

HISTO: 28557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Skin
Trachea

Bone
Intestine Small - Duodenum
Stomach - Forestomach

Brain
Islets, Pancreatic
Stomach - Glandular

Clitoral Gland
Parathyroid Gland
Thyroid Gland

OBSERVATIONS

Adrenal Gland
Bone Marrow
Eye
Note: LEUKEMIA MONUC TGLs = 22-23

Cortex

Necrosis
Leukemia Mononuclear
Leukemia Mononuclear

Focal, Mild

Heart
Intestine Large
Intestine Small
Note: LEUKEMIA MONUC TGLs = 8-4
Kidney
Note: LEUKEMIA MONUC TGLs = 7-8
Larynx
Liver
Note: LEUKEMIA MONUC TGLs = 5,6-5,17
Note: HDN TGLs = 4-15
Lung
Note: HEMORRHAGE TGLs = 11-6,7
Lymph Node

Cecum
Colon
Rectum
Ileum
Jejunum

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Hepatodiaphragmatic Nodule
Leukemia Mononuclear
Vacuolization Cytoplasmic

Mild

Hemorrhage
Leukemia Mononuclear

Minimal

Centrilobular
Axillary
Iliac
Inguinal

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28557

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: CONTROL FEMALE

DISP: Dead

HISTO: 28557

ORGAN AND ACCOUNTABLE SITE STATUS

Mandibular	Leukemia Mononuclear
Mediastinal	Leukemia Mononuclear
Mesenteric	Leukemia Mononuclear
Pancreatic	Leukemia Mononuclear
Renal	Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 14-2

Note: LEUKEMIA MONUC TGLs = 18-9

[Leukemia Mononuclear TGLS = 19-17]

[Leukemia Mononuclear TGLS = 1,15-14,19]

[Leukemia Mononuclear TGLS = 16-20]

[Leukemia Mononuclear TGLS = 17-22]

[Leukemia Mononuclear TGLS = 13-21]

[Leukemia Mononuclear TGLS = 20-13]

Mammary Gland

Fibroadenoma
Leukemia Mononuclear

Note: FIBROADENOMA TGLs = 1-18

Mesentery

Leukemia Mononuclear
Necrosis

Mild

Note: NECROSIS TGLs = 12-16

Nose

Sinus
Sinus

Fungus
Inflammation

Mild
Acute, Moderate

Ovary

Pancreas

Pituitary Gland

Pars Distalis

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 21-3

Salivary Glands

Spleen

Leukemia Mononuclear
Leukemia Mononuclear
Necrosis

Focal, Mild

Note: LEUKEMIA MONUC TGLs = 2-5

Note: NECROSIS TGLs = 3-5

Thymus

Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28557

TRT#: 4

SEX: Female

DAY ON TEST: 728

DOSE: CONTROL FEMALE

DISP: Dead

HISTO: 28557

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 10-3

Urinary Bladder

Uterus

Leukemia Mononuclear

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 9-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28558

TRT#: 4

SEX: Female

DAY ON TEST: 687

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Fibrosis	Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
		Pigmentation	Moderate
Note: NEPHROPATHY TGLs = 5-12			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC TGLs = 4-11			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Hemorrhage	Mild
	Mandibular	Hemorrhage	Mild
	Mesenteric	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 3-15			
Note: HEMORRHAGE TGLs = 2-15			
Note: HEMORRHAGE TGLs = 8-15			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Leukemia Mononuclear	
Note: ANGIECTASIS TGLs = 9-1			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-12			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28558

TRT#: 4

SEX: Female

DAY ON TEST: 687

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28558

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach

Note: STOMACH-A PORTION OF MUCOSA IS ATROPHIC. NO DX.

Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Note: HYPERPLASIA TGLs = 7-5,15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28559

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28559

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	Larynx	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Eye Note: INFLAMMATION TGLs = 6-13	Iris	Inflammation	Chronic, Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Liver Note: CYTOLOGIC ALTER TGLs = 2-5		Cytologic Alterations	Multiple
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	Moderate
Uterus Note: ANGIECTASIS TGLs = 5-3			
	Endometrium	Polyp Stromal	
Uterus Note: POLYP STROMAL TGLs = 1-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28560

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Clitoral Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-13			
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 2-8			
Liver		Cytologic Alterations	Multiple
Note: CYTOLOGC ALTER TGLs = 4-5			
Lung		Hyperplasia	Adenomatous, Minimal
Mammary Gland		Adenoma	
		Dilatation	Mild
Note: ADENOMA TGLs = 7-13			
Note: DILATATION TGLs = 7-14			
Ovary		Cyst	Minimal
Note: CYST TGLs = 3-10			
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 6-3			
Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28561

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney	Pelvis	Dilatation	Marked
		Nephropathy	Minimal
Note: DILATATION TGLs = 7,8-8			
Liver		Hepatodiaphragmatic Nodule	
		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 6-5,10,16			
Note: HDN TGLs = 5-16			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-6,7			
Lymph Node	Iliac	Cyst	Mild
Note: CYST TGLs = 4-15			
Mammary Gland		Dilatation	Mild
		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-14			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28561

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28561

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Cervix

Carcinoma

Note: CARCINOMA TGLs = 3-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28562

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder
Uterus			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 3-8		
Liver		Angiectasis	Mild
		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
Note: ANGIECTASIS	TGLs = 2-13		
Note: CYTOLOGIC ALTER	TGLs = 1-5		
Lung		Foreign Body	Minimal
	Interstitialium	Inflammation	Chronic, Mild
Lymph Node	Deep Cervical	Carcinoma	Metastatic (Thyroid Gland)
Note: CARCINOMA	TGLs = 6-14		
Nose	Sinus	Foreign Body	Mild
	Sinus	Inflammation	Acute, Mild
Ovary		Cyst	Minimal
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:39

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28562

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28562

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS TGLs = 5-3

Thyroid Gland

C Cell

Carcinoma

Note: CARCINOMA TGLs = 4-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28563

TRT#: 4

SEX: Female

DAY ON TEST: 664

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Pancreas
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Ovary
Skin
Thymus
Uterus

MISSING

Clitoral Gland

OBSERVATIONS

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-15

Pituitary Gland

Pars Distalis

Angiectasis

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28564

TRT#: 4

SEX: Female

DAY ON TEST: 686

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Heart	Atrium	Thrombosis	Mild
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC TGLs = 3-11			
Lung		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-1			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28565

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 5-8			
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
		Neoplastic Nodule	
Note: NEOPLASTIC NOD TGLs = 4-5			
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 6,7-6,7			
Lymph Node	Mandibular	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 2-2			
Mammary Gland		Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 1-13			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 8-3			
Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28568

TRT#: 4

SEX: Female

DAY ON TEST: 713

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Larynx	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
Note: LEUKEMIA MONUC	TGLs = 5-5		
Lung		Leukemia Mononuclear	
Lymph Node	Iliac	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-13		
Note: LEUKEMIA MONUC	TGLs = 7-15		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-14		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3,4-5		
Thymus		Cyst	Mild
Thyroid Gland	C Cell	Adenoma	
Uterus		Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 6-10		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28568

TRT#: 4

SEX: Female

DAY ON TEST: 713

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28568

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28569

TRT#: 4

SEX: Female

DAY ON TEST: 99

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28569

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	Liver	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Mineralization	Moderate
Note: MINERALIZATION	TGLs = 2-9,15		
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 1-12		
Stomach	Glandular	Mineralization	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28570

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Clitoral Gland		Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 10-10			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 3-8			
Liver	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
Note: LEUKEMIA MONUC TGLs = 4-5		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 5,6-5,13			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-6,7			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 7,13-13,15]			
Nose	Sinus	Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Cyst	Minimal
Note: CYST TGLs = 12-3			
Spleen		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28570

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28570

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 2-5

Thyroid Gland

C Cell

Hyperplasia

Mild

Tongue

Epithelium

Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 8-14

Uterus

Endometrium

Leukemia Mononuclear

Polyp Stromal

Note: POLYP STROMAL TGLs = 11-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28571

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28571

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	Larynx
Nose	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 7-8		
Liver		Cytologic Alterations	Multiple
Note: CYTOLOGC ALTER	TGLs = 5,6-5		
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 11-6,7		
Lymph Node	Mandibular	Hemorrhage	Mild
	Mediastinal	Hemorrhage	Mild
	Mesenteric	Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 4-9		
[Hemorrhage TGLS = 10-13]			
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 1,2,3-14,15,16		
Ovary		Cyst	Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Mild
Note: CYST	TGLs = 12-3		
Thyroid Gland	C Cell	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 9-3		
Tongue	Epithelium	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 8-13		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28571

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28571

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 13-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28572

TRT#: 4

SEX: Female

DAY ON TEST: 653

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28572

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	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
Note: HDN TGLs = 3-15			
Note: HYPERPLASIA TGLs = 3-15			
Mammary GI			
Note: ADENOMA TGLs = 1-15			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 1-1			
Preputial GI			
Note: INFLAMMATION TGLs = 1-15			
Preputial Gland		Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 1-15			
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 2-15			
Note: SKIN-NUMEROUS MAST CELLS ARE FOUND IN THE LESIONS.			
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Edema	Mild
	Glandular	Erosion	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28573

TRT#: 4

SEX: Female

DAY ON TEST: 603

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28573

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 - Mesenteric	Mammary Gland
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Vacuolization Cytoplasmic	Mild
Note: VACUOLIZ CYTO TGLs = 2-11			
Lung		Infiltration Cellular	Histiocyte, Minimal
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild
Zymbal's Gland		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-15			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28575

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Salivary Glands
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Larynx
Nose
Skin
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Heart
Kidney
 Note: NEPHROPATHY TGLs = 4-8
Liver

Bile Duct

Cardiomyopathy
Nephropathy

Hyperplasia
Hyperplasia
Leukemia Mononuclear

Minimal
Minimal

Mild
Focal, Mild

 Note: HYPERPLASIA TGLs = 2,3-5,13
Pancreas
Pituitary Gland
Spleen
 Note: LEUKEMIA MONUC TGLs = 1-5
Thyroid Gland

Acinus
Pars Distalis

C Cell

Atrophy
Cyst
Leukemia Mononuclear

Hyperplasia

Focal, Minimal
Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28576

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Salivary Glands

OBSERVATIONS

Adrenal Gland	Cortex	Congestion	Mild
	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Clitoral Gland	Bilateral	Adenoma	
Note: ADENOMA	TGLs = 1-13		
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 5-8		
Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-5		
Lung		Hemorrhage	Minimal
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 8-6,7		
Lymph Node	Iliac	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-14		
Ovary		Cyst	Mild
Pituitary Gland		Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 9-3		
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28576	TRT#: 4	SEX: Female	DAY ON TEST: 729
	DOSE: CONTROL FEMALE	DISP: Terminal Sacrifice	HISTO: 28576

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 2,3-5		
Uterus		Endometrium	Polyp Stromal
Note: POLYP STROMAL	TGLs = 6-10		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28577

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Congestion	Minimal
	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Clitoral Gland		Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 2-10			
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 1-8			
Liver		Cytologic Alterations	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
Note: HDN TGLs = 7-5			
Note: CYTOLOGIC ALTER TGLs = 4-5.1			
Lung	Interstitialium	Inflammation	Chronic, Minimal
Mammary Gland		Dilatation	Moderate
		Fibroadenoma	
Note: DILATATION TGLs = 6-13			
Note: FIBROADENOMA TGLs = 3-13			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28578

TRT#: 4

SEX: Female

DAY ON TEST: 578

DOSE: CONTROL FEMALE

DISP: Dead

HISTO: 28578

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 - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-15		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 3-15		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28579

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28579

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 - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Inflammation	Subacute, Moderate
		Nephropathy	Minimal
Note: INFLAMMATION TGLs = 1-8			
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
Note: CYTOLOGIC ALTER TGLs = 2,3,4-5			
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: INFILTRAT CELL TGLs = 5-6,7			
Lymph Node	Mesenteric	Hemorrhage	Minimal
Nose			
Note: ABSCESED TISSUE INTO THE ORAL CAVITY.			
Note: PALATE-THE LESION MAY HAVE BEEN PROTRUSION OF THE			
Skin	Subcut Tiss	Abscess	Mild
Note: ABSCESS TGLs = 7-11,13			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urinary Bladder		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28580

TRT#: 4

SEX: Female

DAY ON TEST: 700

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Salivary Glands	Skin
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland	Thyroid Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Brain		Glioma Benign	
		Thrombosis	Moderate
Note: GLIOMA BGN TGLs = 7-10			
Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
Note: LEUKEMIA MONUC TGLs = 5-12			
Note: NEPHROPATHY TGLs = 4-12			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Nose		Leukemia Mononuclear	
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-1			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Stomach	Forestomach	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28580

TRT#: 4

SEX: Female

DAY ON TEST: 700

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28580

ORGAN AND ACCOUNTABLE SITE STATUS

Glandular

Pigmentation

Minimal

Note: PIGMENT TGLs = 8-15

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28581

TRT#: 4

SEX: Female

DAY ON TEST: 638

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Glandular	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Infiltration Cellular	Lymphocyte, Mild
Heart		Cardiomyopathy	Minimal
Note: CARDIOMYOPATHY TGLs = 3-9			
Kidney	Pelvis	Mineralization	Minimal
Liver		Inflammation	Chronic, Mild
Lung		Thrombosis	Mild
Note: THROMBUS TGLs = 4-15			
Lymph Node	Mandibular	Cyst	Moderate
	Mediastinal	Hemorrhage	Mild
Note: CYST TGLs = 2-15			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-1			
Stomach	Epithelium, Forestomach	Hyperplasia	Moderate
Thyroid Gland		Cyst	Mild
Zymbal's Gland		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-15			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28582

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28582

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	Larynx
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Kidney	Pelvis	Mineralization	Minimal
Note: NEPHROPATHY TGLs = 5-8		Nephropathy	Minimal
Liver		Cytologic Alterations	Multiple
		Hemorrhage	Minimal
	Bile Duct	Hyperplasia	Minimal
Note: HEMORRHAGE TGLs = 4-5,13			
Note: CYTOLOGIC ALTER TGLs = 3-5,13			
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 6-6,7			
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Nervosa	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: CYST TGLs = 7-3			
Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 2-3			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28583

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 1-8		
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Note: CYTOLOGC ALTER	TGLs = 2-13		
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 3-3		
Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28584

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28584

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	Larynx
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 5-8		
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Note: CYTOLOGC ALTER	TGLs = 3,4-5		
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mandibular	Hemorrhage	Minimal
	Mesenteric	Hemorrhage	Minimal
	Mediastinal	Pigmentation	Mild
[Hemorrhage TGLS = 1-2]			
[Hemorrhage TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28585

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Clitoral Gland		Inflammation	Acute, Mild
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 2-8			
Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LIVER-THE DEPRESSED FOCUS IS COLLAPSED STROMA CAUSED BY THE LEUKEMIA.			
Note: HDN TGLs = 4-5			
Note: LEUKEMIA MONUC TGLs = 5-5			
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 7-6,7			
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 1-13			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-3			
Spleen		Leukemia Mononuclear	
Uterus	Endometrium	Hyperplasia	Cystic, Minimal
Note: HYPERPLASIA TGLs = 3-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28585

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28585

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28586

TRT#: 4

SEX: Female

DAY ON TEST: 644

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28586

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	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 4-12			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-11			
Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 6-15			
Ovary		Cyst	Mild
Note: CYST TGLs = 5-5			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-12			
Stomach	Forestomach	Inflammation	Acute, Minimal
	Glandular	Pigmentation	Minimal
Note: PIGMENT TGLs = 7-15			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28587

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thyroid Gland

Bone
Heart
Intestine Small - Duodenum
Lung
Ovary
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Note: INFLAMMATION TGLs = 2-5

Kidney
Liver

Pancreas
Pituitary Gland
Note: ADENOMA TGLs = 1-1

Spleen
Stomach
Note: STOMACH-THERE IS SLIGHT EXCESS OF MUCUS PRODUCTION
Note: OF FOCAL AREAS OF THE GLANDULAR MUCOSA.

Inflammation Acute, Mild
Nephropathy Mild
Cytologic Alterations Multiple
Hyperplasia Minimal
Atrophy Focal, Minimal
Adenoma
Pigmentation Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28589

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 1-13			
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 6-8			
Liver		Cytologic Alterations	Multiple
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Mild
Note: HDN TGLs = 5-5			
Lung		Hemorrhage	Minimal
		Hyperplasia	Adenomatous, Minimal
Lymph Node	Mandibular	Cyst	Minimal
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 2,3-14,15			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 4-16			
Ovary		Inflammation	Chronic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-3]			
Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28590

TRT#: 4

SEX: Female

DAY ON TEST: 578

DOSE: CONTROL FEMALE

DISP: Dead

HISTO: 28590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Clitoral Gland	Esophagus	Heart
Liver	Lymph Node - Mesenteric	Mammary Gland	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

AUTO PRECLUDES DIAG.

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Spleen	Stomach - Glandular	

OBSERVATIONS

Kidney		Nephropathy	Minimal
Lung		Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 2-4		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-1		

PRIMARY CAUSE OF DEATH

-

Animal Note: AUTOLYSIS ACCOUNTS FOR LIVER, STOMACH & LUNG LESIONS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28591

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28591

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	Larynx	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 6-8		
Liver		Congestion	Minimal
		Cytologic Alterations	Multiple
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
Note: HDN	TGLs = 4-5		
Note: CYTOLOGC ALTER	TGLs = 1,3-5		
Note: CONGESTION	TGLs = 2-5		
Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Note: HEMORRHAGE	TGLs = 7-6,7		
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands		Atrophy	Focal, Minimal
Skin	Subcut Tiss	Schwannoma Benign	
Note: SCHWANNOMA BGN	TGLs = 8-13		
Thymus		Thymoma Benign	
Thyroid Gland	C Cell	Adenoma	
Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 5-14		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28591

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28591

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28592

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 3-10		
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 4-8		
Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Note: HDN	TGLs = 1-5		
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 5-6,7		
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Inflammation	Acute, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28593

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thymus
Uterus

Bone
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Kidney
 Note: NEPHROPATHY TGLs = 5-8
Larynx
Liver
 Note: CYTOLOGC ALTER TGLs = 3-5
 Note: HDN TGLs = 2-5
Lymph Node
 Note: HEMORRHAGE TGLs = 7-14
Mammary Gland
 Note: DILATATION TGLs = 1-13
Pituitary Gland
 Note: ADENOMA TGLs = 6-3

Mediastinal

Pars Distalis

Cardiomyopathy
Nephropathy

Inflammation
Cytologic Alterations
Hepatodiaphragmatic Nodule

Hemorrhage

Dilatation

Adenoma

Minimal
Mild

Chronic, Moderate
Multiple

Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28595

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28595

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	Larynx
Lung	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Kidney	Pelvis	Mineralization	Minimal
Note: NEPHROPATHY TGLs = 4-8		Nephropathy	Minimal
Liver		Cytologic Alterations	Multiple
Note: CYTOLOGC ALTER TGLs = 1,2-5		Hepatodiaphragmatic Nodule	
Note: HDN TGLs = 3-5		Leukemia Mononuclear	
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 6-13			
Mammary Gland		Adenoma	
Note: HYPERPLASIA TGLs = 9-15		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 7-3			
Skin		Cyst	Mild
Note: CYST TGLs = 8-9			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28597

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 4-13			
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 1-8			
Liver		Hepatodiaphragmatic Nodule	
		Neoplastic Nodule	
Note: NEOPLASTIC NOD TGLs = 2-5			
Note: HDN TGLs = 3-5			
Nose	Nasolacrim Dct	Fungus	Mild
	Nasolacrim Dct	Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: ADENOMA TGLs = 5-3			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28598

TRT#: 4

SEX: Female

DAY ON TEST: 713

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Clitoral Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 5-8		
Liver		Congestion	Mild
		Hepatodiaphragmatic Nodule	
		Hyperplasia	Focal, Mild
Note: HYPERPLASIA	TGLs = 4-5		
Note: HDN	TGLs = 2-5,13		
Note: CONGESTION	TGLs = 3-5		
Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 1-9,14		
Ovary		Cyst	Minimal
Note: CYST	TGLs = 6-10		
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Moderate
Note: ANGIECTASIS	TGLs = 7-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28599

TRT#: 4

SEX: Female

DAY ON TEST: 528

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thymus
Uterus

Bone
Heart
Intestine Small - Duodenum
Lung
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Clitoral Gland
Kidney
Liver
Mammary Gland

Inflammation
Nephropathy
Cytologic Alterations
Dilatation
Fibroadenoma
Adenoma

Acute, Minimal
Minimal
Multiple
Mild

Pituitary Gland

Pars Distalis

Note: ADENOMA TGLs = 2-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28600

TRT#: 4

SEX: Female

DAY ON TEST: 686

DOSE: CONTROL FEMALE

DISP: Dead

HISTO: 28600

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 - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Minimal
Liver	Centrilobular	Necrosis	Moderate
Note: NECROSIS	TGLs = 3-11		
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Leiomyosarcoma	
Note: LEIOMYOSAR	TGLs = 2-6,15		
Note: STOMACH-THE LESION HAS AREAS OF LEIOMYOBLASTOMA.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28601

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Eye			
Note: EYE-NO LESION.			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 6,7-8			
Liver		Hepatodiaphragmatic Nodule	
		Hyperplasia	Focal, Mild
		Neoplastic Nodule	
Note: HYPERPLASIA TGLs = 1,2,5-5			
Note: NEOPLASTIC NOD TGLs = 3-5			
Note: HDN TGLs = 4-5			
Ovary		Cyst	Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28604

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 4-8		
Liver		Cytologic Alterations	Multiple
		Inflammation	Chronic, Minimal
Note: LIVER-THE RED LESIONS ARE CONSIDERED SLIGHT CENTRILOBULAR			
Note: CONGESTION AND ARTIFACTUAL HEMORRHAGE. NO DX.			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 7-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28606

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28606

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	Larynx	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 7-8		
Liver		Cytologic Alterations	Multiple
		Inflammation	Chronic, Minimal
Note: CYTOLOGC ALTER	TGLs = 4,5,6-5,15		
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 10-6,7		
Lymph Node	Mandibular	Cyst	Minimal
	Mediastinal	Hemorrhage	Mild
Note: CYST	TGLs = 2-2		
[Cyst TGLS = 9-13]			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-14		
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Moderate
Note: ANGIECTASIS	TGLs = 11-3		
Uterus	Endometrium	Hyperplasia	Cystic, Minimal
Note: HYPERPLASIA	TGLs = 8-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28607

TRT#: 4

SEX: Female

DAY ON TEST: 664

DOSE: CONTROL FEMALE

DISP: Moribund

HISTO: 28607

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	Liver
Lung	Mammary Gland	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Kidney		Nephropathy	Mild
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	

Note: ADENOMA TGLs = 1-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28608

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	
Kidney		Cyst	Mild
		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 4-8		
Note: CYST	TGLs = 3-8		
Liver		Cytologic Alterations	Multiple
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
Note: HDN	TGLs = 1-5		
Pituitary Gland	Pars Distalis	Cyst	Mild
Note: CYST	TGLs = 5-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28609

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: CONTROL FEMALE

DISP: Terminal Sacrifice

HISTO: 28609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Thymus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Trachea

Bone
Esophagus
Intestine Small - Duodenum
Larynx
Pancreas
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Uterus

OBSERVATIONS

Heart
Kidney
 Note: NEPHROPATHY TGLs = 2-8
Liver

Cardiomyopathy
Nephropathy

Minimal
Moderate

Lung
Ovary
Pituitary Gland
 Note: ANGIECTASIS TGLs = 3-3
Spleen
 Note: LEUKEMIA MONUC TGLs = 1-5
Thyroid Gland

Interstitialium
Pars Distalis
C Cell

Cytologic Alterations
Leukemia Mononuclear
Inflammation
Cyst
Angiectasis
Leukemia Mononuclear
Hyperplasia

Multiple
Chronic, Mild
Minimal
Moderate
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28610

TRT#: 4

SEX: Female

DAY ON TEST: 559

DOSE: CONTROL FEMALE

DISP: Dead

HISTO: 28610

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	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Cytologic Alterations	Multiple
Pituitary Gland	Pars Distalis	Cyst	Mild
Stomach	Epithelium, Forestomach	Hyperplasia	Minimal
Uterus	Cervix	Leiomyosarcoma	

Note: UTERUS-SYNTROPHOBLASTIC CHANGES ARE FOUND ON THE

Note: ENDOMETRIAL PORTION OF THE LEIOMYOSARCOMA.

Note: LEIOMYOSAR TGLs = 3-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28671

TRT#: 5

SEX: Female

DAY ON TEST: 706

DOSE: 12500PPMFEMALE

DISP: Dead

HISTO: 28671

OBSERVATIONS

Adrenal Gland

Cortex

Necrosis

Focal, Moderate

Medulla

Pheochromocytoma Malignant

Note: PHEOCHROM MAL TGLs = 3-3

Clitoral Gland

Adenoma

Liver

Centrilobular

Necrosis

Moderate

Note: NECROSIS TGLs = 2-5

Lymph Node

Iliac

Hyperplasia

Lymphoid, Mild

Note: HYPERPLASIA TGLs = 6-13

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-14

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Spleen

Hematopoietic Cell Proliferation

Mild

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 5-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28672

TRT#: 5

SEX: Female

DAY ON TEST: 643

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

OBSERVATIONS

Eye

Retina

Atrophy

Marked

Lens Capsule

Cataract

Marked

Note: CATARACT TGLs = 7-15

Kidney

Nephropathy

Minimal

Note: NEPHROPATHY TGLs = 6-12

Liver

Bile Duct

Hyperplasia

Minimal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-11

Lymph Node

Iliac

Cyst

Mild

Note: CYST TGLs = 5-15

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-15

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-12

Uterus

Endometrium

Sarcoma Stromal

Note: SARC STROMAL TGLs = 4-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28674

TRT#: 5

SEX: Female

DAY ON TEST: 734

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28674

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Lung

Mammary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Mild

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 3-8

Liver

Cytologic Alterations

Note: CYTOLOGC ALTER TGLs = 1,2-5

Lung

Note: NCL

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 5-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28677

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Lymph Node

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Minimal

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 3-8

Liver

Cytologic Alterations

Inflammation

Chronic, Minimal

Note: CYTOLOGIC ALTER TGLs = 2-5

Lymph Node

Note: NCL-IS MEDIASTINAL LN

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-13

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Cyst

Mild

[Angiectasis TGLs = 5-3]

[Cyst TGLs = 5-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28678

TRT#: 5

SEX: Female

DAY ON TEST: 734

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

Spleen

OBSERVATIONS

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 2-8

Liver

Cytologic Alterations

Inflammation

Chronic, Mild

Note: CYTOLOGIC ALTER TGLs = 1-5

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28679

TRT#: 5

SEX: Female

DAY ON TEST: 734

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Mammary Gland

Spleen

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Minimal

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 6-8

Liver

Cytologic Alterations

Multiple

Hepatodiaphragmatic Nodule

Note: HDN TGLs = 4-5,13

Note: CYTOLOGC ALTER TGLs = 1,2,3,5-5,13

Pituitary Gland

Pars Distalis

Pigmentation

Minimal

Note: PIGMENT TGLs = 7-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28680

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

OBSERVATIONS

Adrenal Gland	Cortex	Amyloid Deposition	Moderate
	Cortex	Hemorrhage	Mild
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 4-8		
Liver		Cytologic Alterations	Multiple
		Inflammation	Chronic, Minimal
Note: NCL			
Note: THE ACCENTUATED LOBULATION IS CAUSED BY SLIGHT			
Note: VACUOLIZATION. NO DX.			
Mammary Gland		Fibroadenoma	Multiple
Note: THERE WERE 2 FIBROADENOMAS			
Note: FIBROADENOMA	TGLs = 1,2-13,14		
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[Angiectasis TGLS = 5-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28681

TRT#: 5

SEX: Female

DAY ON TEST: 718

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Eye	Retina	Atrophy	Moderate
	Lens Capsule	Cataract	Mild
Note: CATARACT	TGLs = 4-14		
Note: ATROPHY	TGLs = 4-14		
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
Note: HDN	TGLs = 1-5		
Lymph Node	Mediastinal	Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 2-13		
Mammary Gland		Dilatation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28682

TRT#: 5

SEX: Female

DAY ON TEST: 118

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal GI			
Note: CORTEX-NCL			
Blood Vessel	Aorta	Mineralization	Mild
Bone		Osteoporosis	Mild
Heart		Mineralization	Mild
Note: MINERALIZATION TGLs = 2-9			
Intestine Large	Colon	Mineralization	Mild
	Rectum	Mineralization	Mild
Note: MINERALIZATION TGLs = 3-15			
Note: MINERALIZATION TGLs = 3-15			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-12			
Liver			
Note: NCL			
Note: A FOCUS OF HEMORRHAGE IS FOUND ON THE CAPSULE.			
Nose		Metaplasia	Squamous, Mild
Ovary		Mineralization	Minimal
Parathyroid Gland		Hyperplasia	Mild
Stomach	Glandular	Mineralization	Moderate
Note: MINERALIZATION TGLs = 6-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28683

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

OBSERVATIONS

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 2-8

Liver

Cytologic Alterations

Multiple

Hyperplasia

Focal, Mild

Note: HYPERPLASIA TGLs = 4-13

Note: CYTOLOGIC ALTER TGLs = 5,6-13

Lung

Alveolar/Bronchiolar Adenoma

Note: ALV BRON ADEN TGLs = 3-6

Note: LESION 9 NOT DETECTED AT TRIM.

Lymph Node

Mediastinal

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 7-14

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-15

Pituitary Gland

Pars Distalis

Angiectasis

Marked

Pars Distalis

Hyperplasia

Mild

[Angiectasis TGLs = 8-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28684

TRT#: 5

SEX: Female

DAY ON TEST: 558

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Parathyroid Gland

OBSERVATIONS

Brain		Astrocytoma Benign	
Note: ASTROCYTO BGN	TGLs = 1-10		
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28685

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

OBSERVATIONS

Adrenal Gland

Cortex

Vacuolization Cytoplasmic

Focal, Mild

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 5-8

Liver

Hepatodiaphragmatic Nodule

Note: HDN TGLs = 2-5

Hyperplasia

Focal, Mild

Note: HYPERPLASIA TGLs = 3-14

Lung

Hemorrhage

Minimal

Note: HEMORRHAGE TGLs = 6-7

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-13

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 7-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28686

TRT#: 5

SEX: Female

DAY ON TEST: 734

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28686

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Cortex

Vacuolization Cytoplasmic

Focal, Minimal

Kidney

Pelvis

Mineralization

Minimal

Pigmentation

Mild

Note: PIGMENT TGLs = 4-8

Lung

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-6,7

Note: THE BLACK LESION WAS NOT SEEN MICROSCOPICALLY.

Lymph Node

Renal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8-15

Mammary Gland

Fibroadenoma

Multiple

Note: FIBROADENOMA TGLs = 1,2-13,14

Note: THERE WERE 2 FIBROADENOMAS

Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7-3

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 9-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28687

TRT#: 5

SEX: Female

DAY ON TEST: 734

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

OBSERVATIONS

Kidney		Pelvis	Mineralization	Minimal
			Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 4-8			
Liver		Bile Duct	Hyperplasia	Mild
			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2,3-5			
Lung			Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 5-6,7			
Mammary Gland			Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-13			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28688

TRT#: 5

SEX: Female

DAY ON TEST: 708

DOSE: 12500PPMFEMALE

DISP: Dead

HISTO: 28688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Mammary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Leukemia Mononuclear

Kidney

Leukemia Mononuclear

Pelvis

Mineralization

Minimal

Pigmentation

Minimal

Note: PIGMENT TGLs = 5-8

Liver

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: HDN TGLs = 2-5

Note: NODULAR HYPERPLASIA IS OBSERVED. NO DIAGNOSIS. (LESION 1)

Lung

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-6,7

Lymph Node

Mediastinal

Hemorrhage

Mild

Pancreatic

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7-14

Note: HEMORRHAGE TGLs = 3-13

Mesentery

Fat

Necrosis

Mild

Note: NECROSIS TGLs = 6-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28689

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

OBSERVATIONS

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Minimal

Note: NEPHROPATHY TGLs = 6-8

Lung

Hemorrhage

Minimal

Infiltration Cellular

Histiocyte, Minimal

Note: HEMORRHAGE TGLs = 5-6,7

Mammary Gland

Fibroadenoma

Multiple

Note: THERE WERE 2 FIBROADENOMAS

Note: FIBROADENOMA TGLs = 3,2-14,15

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Moderate

[Angiectasis TGLs = 1-3]

Uterus

Endometrium

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 4-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28690

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

OBSERVATIONS

Kidney

Nephropathy

Minimal

Note: NEPHROPATHY TGLs = 1-8

Liver

Cytologic Alterations

Multiple

Hepatodiaphragmatic Nodule

Leukemia Mononuclear

Note: HDN TGLs = 6-15

Note: CYTOLOGIC ALTER TGLs = 7-15

[Hepatodiaphragmatic Nodule TGLS = 7-15]

Lymph Node

Iliac

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-16

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-13

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 8-3]

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-15

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 4-14

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28691

TRT#: 5

SEX: Female

DAY ON TEST: 729

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Eye

Retina

Atrophy

Mild

Lens Capsule

Cataract

Mild

Sclera

Metaplasia

Osseous, Mild

Note: ATROPHY TGLs = 1-14

Note: CATARACT TGLs = 1-14

Note: RECUT AND RETRIM DID NOT REVEAL EYELID LESION

Kidney

Artery

Inflammation

Chronic, Mild

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 5-8

Liver

Cytologic Alterations

Multiple

Inflammation

Chronic, Minimal

Note: CYTOLOGC ALTER TGLs = 3-5

Lymph Node

Mediastinal

Hemorrhage

Moderate

Note: HEMORRHAGE TGLs = 6-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28694

TRT#: 5

SEX: Female

DAY ON TEST: 621

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28694

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	Lung
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Kidney		Fibrosis	Focal, Mild
	Epithelium, Pelvis	Hyperplasia	Mild
	Pelvis	Inflammation	Acute, Mild
	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 2-12			
Liver		Vacuolization Cytoplasmic	Minimal
Note: VACUOLIZ CYTO TGLs = 1-11			
Nose	Sinus	Fungus	Mild
	Sinus	Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Stomach	Forestomach	Inflammation	Chronic, Mild
Urin Bladder			
Note: NCL			
Uterus		Leiomyosarcoma	
Note: LEIOMYOSAR TGLs = 3-15			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28695

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Clitoral Gland

Inflammation

Acute, Mild

Note: INFLAMMATION TGLs = 3-10

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 4-8

Liver

Angiectasis

Mild

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: ANGIECTASIS TGLs = 2-5

Lymph Node

Axillary

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 9-13

Mammary GI

Note: SLIGHT DILATATION IS OBSERVED BUT NOT DIAGNOSED

Note: NCL

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Note: ANGIECTASIS TGLs = 7-3

Spleen

Fibrosis

Focal, Mild

Leukemia Mononuclear

Note: FIBROSIS TGLs = 1-5

Thyroid Gland

C Cell

Carcinoma

Note: CARCINOMA TGLs = 6-3

Uterus

Endometrium

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 5-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28696

TRT#: 5

SEX: Female

DAY ON TEST: 643

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Minimal

Pituitary Gland

Pars Distalis

Angiectasis

Moderate

Note: ANGIECTASIS TGLs = 2-1

Urinary Bladder

Hemorrhage

Minimal

Note: HEMORRHAGE TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28697

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 12500PPMFEMALE

DISP: Dead

HISTO: 28697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Lung

OBSERVATIONS

Adrenal Gland

Cortex

Vacuolization Cytoplasmic

Focal, Mild

Clitoral Gland

Adenoma

Note: ADENOMA

TGLs = 1-13

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Pigmentation

Minimal

Note: NEPHROPATHY

TGLs = 5-8

Liver

Centrilobular

Vacuolization Cytoplasmic

Moderate

Note: VACUOLIZ CYTO

TGLs = 4-5

Lung

Note: NCL

Lymph Node

Prefemoral

Hyperplasia

Lymphoid, Mild

Note: HYPERPLASIA

TGLs = 2-13

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA

TGLs = 1-13

Spleen

Hematopoietic Cell Proliferation

Moderate

Hemorrhage

Minimal

Note: HEMORRHAGE

TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28699

TRT#: 5

SEX: Female

DAY ON TEST: 734

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

OBSERVATIONS

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 4-8

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLs = 3-3]

Spleen

Pigmentation

Mild

Note: NCL

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 2-14

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28701

TRT#: 5

SEX: Female

DAY ON TEST: 588

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Clitoral Gland

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Chronic, Minimal
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 2-15			
Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-15			
Pancreas	Acinus	Atrophy	Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28702

TRT#: 5

SEX: Female

DAY ON TEST: 722

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

OBSERVATIONS

Clitoral Gland

Adenoma

Note: ADENOMA TGLs = 4-10

Kidney

Nephropathy

Minimal

Liver

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Minimal

Note: HDN TGLs = 3-5

Leukemia Mononuclear

Lung

Leukemia Mononuclear

Note: LESION NOT FOUND AT TRIM.

Note: NCL

Lymph Node

Inguinal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8-15

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-13

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 7-3]

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-5

Uterus

Leukemia Mononuclear

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 5-14

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28703

TRT#: 5

SEX: Female

DAY ON TEST: 698

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Uterus

OBSERVATIONS

Adrenal Gland

Medulla

Leukemia Mononuclear

Cortex

Necrosis

Focal, Minimal

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Minimal

Liver

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-11

Lymph Node

Axillary

Leukemia Mononuclear

Iliac

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-15

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-12

Uterus

Note: MASS IS NECROTIC. NO DX.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28704

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 3-8

Liver

Congestion

Mild

Leukemia Mononuclear

Note: CONGESTION TGLs = 2-5

Lung

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 4-6,7

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28705

TRT#: 5

SEX: Female

DAY ON TEST: 734

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Mammary Gland

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Malignant

Note: PHEOCHROM MAL TGLs = 2-3

Kidney

Pelvis

Mineralization

Minimal

Note: NEPHROPATHY TGLs = 3-8

Nephropathy

Mild

Liver

Cytologic Alterations

Multiple

Note: CYTOLOGC ALTER TGLs = 1-5

Bile Duct

Hyperplasia

Mild

Lung

Hemorrhage

Minimal

Note: HEMORRHAGE TGLs = 6-6,7

Lymph Node

Iliac

Hyperplasia

Lymphoid, Mild

Uterus

Endometrium

Polyp Stromal

Note: SQUAM CEL CARC TGLs = 5-14

Cervix

Squamous Cell Carcinoma

Note: POLYP STROMAL TGLs = 4-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28706

TRT#: 5

SEX: Female

DAY ON TEST: 734

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 3-8

Liver

Cytologic Alterations

Multiple

Note: CYTOLOGIC ALTER TGLs = 1-5

Lung

Hemorrhage

Minimal

Note: HEMORRHAGE TGLs = 5-6,7

Pituitary Gland

Pars Distalis

Angiectasis

Marked

[Angiectasis TGLs = 6,7-3]

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 4-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28707

TRT#: 5

SEX: Female

DAY ON TEST: 671

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

Stomach - Glandular

OBSERVATIONS

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 2-12

Liver

Leukemia Mononuclear

Centrilobular

Necrosis

Moderate

Note: NECROSIS TGLs = 1-11

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 5-1

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-12

Stomach

Forestomach

Ulcer

Mild

Note: ULCER TGLs = 6-6,15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28708

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 2-8

Liver

Hyperplasia

Focal, Mild

Note: HYPERPLASIA TGLs = 1-5

Lymph Node

Mediastinal

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 4-13

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 3-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28709

TRT#: 5

SEX: Female

DAY ON TEST: 630

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28709

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	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-11		
Lung		Hyperplasia	Adenomatous, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-4,15		
Lymph Node	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-15		
Spleen		Leukemia Mononuclear	
		Necrosis	Focal, Mild
Note: NECROSIS	TGLs = 3-15		
Note: LEUKEMIA MONUC	TGLs = 2-12		
Stomach	Glandular	Erosion	Mild
Note: EROSION	TGLs = 6-6,15		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28710

TRT#: 5

SEX: Female

DAY ON TEST: 583

DOSE: 12500PPMFEMALE

DISP: Dead

HISTO: 28710

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	Liver	Lung
Lymph Node	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 2-15		
Stomach	Glandular	Erosion	Mild
Note: EROSION	TGLs = 3-15		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28711

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Kidney

Renal Tubule

Carcinoma

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: CARCINOMA TGLs = 1-8

Lymph Node

Note: RENAL LN IS NORMAL.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28712

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Adrenal Gland

Cortex

Vacuolization Cytoplasmic

Focal, Mild

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 2-8

Liver

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Mild

Note: HDN TGLs = 1-5

Lung

Hemorrhage

Minimal

Hyperplasia

Adenomatous, Mild

Note: HEMORRHAGE TGLs = 4-6,7

Lymph Node

Mediastinal

Hemorrhage

Mild

Mesenteric

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 3-13

Note: HEMORRHAGE TGLs = 6-14

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Hyperplasia

Mild

[Angiectasis TGLS = 5-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28713

TRT#: 5

SEX: Female

DAY ON TEST: 734

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 2-8

Lung

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 3-6,7

Lymph Node

Iliac

Hemorrhage

Mild

Note: MEDIASTINAL LYMPH NODE-COULD NOT BE LOCATED IN WET TISSUE.

Note: HEMORRHAGE TGLs = 6-15

Pituitary Gland

Pars Distalis

Adenoma

Pars Nervosa

Ectopic Tissue

Note: ADENOMA TGLs = 5-3

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 1-14

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28714

TRT#: 5

SEX: Female

DAY ON TEST: 734

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

OBSERVATIONS

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 3-8

Liver

Hyperplasia

Multifocal, Moderate

Leukemia Mononuclear

Note: HYPERPLASIA TGLs = 2-5

Lung

Hemorrhage

Minimal

Note: HEMORRHAGE TGLs = 4-6,7

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-14

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 6-3

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 5-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28715

TRT#: 5

SEX: Female

DAY ON TEST: 663

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Lymph Node

Stomach - Forestomach

Stomach - Glandular

OBSERVATIONS

Adrenal Gland

Cortex

Vacuolization Cytoplasmic

Focal, Mild

Clitoral Gland

Adenoma

Note: ADENOMA TGLs = 1-5

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Minimal

Lymph Node

Note: AXILLARY-NCL

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-15

Stomach

Note: FORESTOMACH-NCL

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28716

TRT#: 5

SEX: Female

DAY ON TEST: 734

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Adrenal Gland

Cortex

Vacuolization Cytoplasmic

Focal, Mild

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 3-8

Liver

Congestion

Mild

Cytologic Alterations

Multiple

Bile Duct

Hyperplasia

Mild

Note: CYTOLOGC ALTER TGLs = 1-5

Note: CONGESTION TGLs = 2-5

Lung

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 4-6,7

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 5-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28718

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Minimal

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 8-8

Liver

Cytologic Alterations

Multiple

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: HDN TGLs = 4-5

Note: CYTOLOGIC ALTER TGLs = 7-5

[Hepatodiaphragmatic Nodule TGLS = 5,6-5]

Lung

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-6,7

Mammary Gland

Adenoma

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-13

Note: ADENOMA TGLs = 2-14

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 9-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28719

TRT#: 5

SEX: Female

DAY ON TEST: 583

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28719

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	Lung	Lymph Node - Mesenteric
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Hyperplasia	Mild
Nose	Nasolacrim Dct	Inflammation	Acute, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-1]			
Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28721

TRT#: 5

SEX: Female

DAY ON TEST: 565

DOSE: 12500PPMFEMALE

DISP: Moribund

HISTO: 28721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Eye	Retina	Atrophy	Marked
	Lens Capsule	Cataract	Mild
Note: ATROPHY TGLs = 2-15 [Atrophy TGLS = 2-15]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver		Inflammation	Chronic, Mild
Lung			
Note: NCL			
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 1-15			
Nose	Sinus	Inflammation	Acute, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28723

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Kidney

Nephropathy

Minimal

Note: NEPHROPATHY TGLs = 1-8

Lung

Hemorrhage

Minimal

Note: HEMORRHAGE TGLs = 2-6,7

Infiltration Cellular

Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28724

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 4-8

Liver

Congestion

Mild

Inflammation

Chronic, Mild

Note: CONGESTION TGLs = 3-5

Lung

Hyperplasia

Adenomatous, Mild

Note: HYPERPLASIA TGLs = 5-6,7

Mesentery

Fat

Necrosis

Mild

Note: NECROSIS TGLs = 1-13

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Moderate

[Adenoma TGLS = 2-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28725

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 4-8

Liver

Cytologic Alterations

Multiple

Bile Duct

Hyperplasia

Minimal

Inflammation

Chronic, Mild

Note: INFLAMMATION TGLs = 3-5

Lung

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 6-6,7

Mammary Gland

Adenocarcinoma

Dilatation

Mild

Fibroadenoma

Note: ADENOCARC TGLs = 1-13

Note: FIBROADENOMA TGLs = 2-14

Note: DILATATION TGLs = 7-15

Pituitary Gland

Pars Distalis

Angiectasis

Moderate

[Angiectasis TGLs = 5-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28726

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Eye

Retina

Atrophy

Marked

Lens Capsule

Cataract

Mild

Cornea

Inflammation

Chronic, Mild

Note: CATARACT TGLs = 1-13

Note: INFLAMMATION TGLs = 1-13

[Inflammation TGLS = 1-13]

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 6-8

Liver

Cytologic Alterations

Multiple

Fibrosis

Focal, Minimal

Hepatodiaphragmatic Nodule

Note: HDN TGLs = 3-5

Note: FIBROSIS TGLs = 5-5

[Hepatodiaphragmatic Nodule TGLS = 4-5]

Thyroid Gland

C Cell

Carcinoma

Note: CARCINOMA TGLs = 2-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28727

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

OBSERVATIONS

Clitoral Gland

Adenoma

Note: ADENOMA TGLs = 1-10

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Minimal

[Nephropathy TGLS = 5-8]

Liver

Hepatodiaphragmatic Nodule

Hyperplasia

Focal, Minimal

Inflammation

Chronic, Mild

[Hepatodiaphragmatic Nodule TGLS = 3-5]

[Hyperplasia TGLS = 4-5]

[Inflammation TGLS = 6-5]

Lung

Hemorrhage

Minimal

[Hemorrhage TGLS = 6-6,7]

Lymph Node

Mediastinal

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 7-13

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-14

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28728

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 1-8

Liver

Cytologic Alterations

Multiple

Inflammation

Chronic, Mild

Note: INFLAMMATION TGLs = 2-5

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

[Hyperplasia TGLs = 3-3]

Uterus

Endometrium

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 4-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28729

TRT#: 5

SEX: Female

DAY ON TEST: 732

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28729

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Mild

Cortex

Hypertrophy

Focal, Mild

Kidney

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 5-8

Liver

Bile Duct

Hyperplasia

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-5

Note: HYPERPLASIA TGLs = 4-5

Mammary Gland

Dilatation

Moderate

Fibroadenoma

Note: DILATATION TGLs = 1-13

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLs = 6-3]

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28730

TRT#: 5

SEX: Female

DAY ON TEST: 733

DOSE: 12500PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

OBSERVATIONS

Adrenal Gland

Cortex

Vacuolization Cytoplasmic

Focal, Mild

Kidney

Pelvis

Mineralization

Minimal

Nephropathy

Mild

Note: NEPHROPATHY TGLs = 3-8

Liver

Inflammation

Chronic, Mild

Note: INFLAMMATION TGLs = 2-5

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 5-13

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 4-3]

Uterus

Cervix

Inflammation

Acute, Marked

Note: INFLAMMATION TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28792

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28792

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 - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Liver	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Blood Vessel	Artery	Inflammation	Chronic, Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 4-8			
Liver			
Note: LIVER-A NODULAR AREA IS SLIGHTLY VACUOLATED. NO DX.			
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 3-13			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: ADENOMA TGLs = 5-3			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 1-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28793

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28793

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	Larynx	Lymph Node - Mesenteric
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 4-8		
Liver		Angiectasis	Mild
		Hemorrhage	Minimal
		Inflammation	Chronic, Mild
Note: INFLAMMATION	TGLs = 7-5		
Note: HEMORRHAGE	TGLs = 9-16		
Note: ANGIECTASIS	TGLs = 8-5		
Lung	Interstitialium	Inflammation	Chronic, Minimal
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 2,3-10,14,15		
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Moderate
Note: ANGIECTASIS	TGLs = 6-3		
Spleen		Pigmentation	Mild
Note: PIGMENT	TGLs = 5-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28794

TRT#: 6

SEX: Female

DAY ON TEST: 692

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28794

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	Nose	Ovary
Pancreas	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	

MISSING

Parathyroid Gland	Thyroid Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 5-12			
Liver		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-11			
Lung		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-15			
Note: LEUKEMIA MONUC TGLs = 9-15			
Mammary Gland		Dilatation	Mild
		Fibroadenoma	
		Hyperplasia	Mild
Note: DILATATION TGLs = 7-15			
Note: HYPERPLASIA TGLs = 1-15			
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-1			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28794

TRT#: 6

SEX: Female

DAY ON TEST: 692

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28794

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 3-12

Urinary Bladder

Uterus

Note: POLYP STROMAL TGLs = 6-5

Endometrium

Leukemia Mononuclear

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

Animal Note: PROCESSING MALFUNCTION PRECLUDES DIAGNOSIS OF ILIAC

Animal Note: AND RENAL LYMPH NODES.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28796

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Clitoral Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 5-8		
Liver		Cytologic Alterations	Multiple
		Bile Duct	Minimal
		Hyperplasia	Chronic, Minimal
		Inflammation	
Note: CYTOLOGIC ALTER	TGLs = 2-5		
Lung		Inflammation	Chronic, Minimal
Note: INFLAMMATION	TGLs = 4-6,7		
Lymph Node		Mesenteric	Mild
Mammary Gland		Hemorrhage	
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-13		
Pituitary Gland		Pars Distalis	Mild
[Angiectasis TGLS = 3-3]		Angiectasis	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28797

TRT#: 6

SEX: Female

DAY ON TEST: 718

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Larynx	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 4-10		
Heart	Atrium	Thrombosis	Mild
Note: THROMBUS	TGLs = 9-4		
Islets, Pancreatic		Hyperplasia	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 8-8		
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	Centrilobular	Vacuolization Cytoplasmic	Marked
Note: HDN	TGLs = 6-5		
Note: VACUOLIZ CYTO	TGLs = 7-5		
Lung		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 10-3		
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC	TGLs = 5-14		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-5		
Stomach	Forestomach	Inflammation	Acute, Mild
	Glandular	Inflammation	Acute, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28797

TRT#: 6

SEX: Female

DAY ON TEST: 718

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28797

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28798

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28798

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Lung
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Clitoral Gland

OBSERVATIONS

Kidney	Pelvis	Mineralization	Minimal
Note: NEPHROPATHY TGLs = 3-8		Nephropathy	Minimal
Liver		Cytologic Alterations	
Note: CYTOLOGIC ALTER TGLs = 1-5			
Lymph Node	Mediastinal	Pigmentation	Mild
Note: PIGMENT TGLs = 5-14			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 2-13			
Ovary		Granulosa Cell Tumor Benign	
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 6-3			
Uterus	Endometrium	Hyperplasia	Cystic, Minimal
Note: HYPERPLASIA TGLs = 4-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28799

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Blood	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	Larynx
Lung	Lymph Node - Mesenteric	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Moderate
Eye	Retina	Atrophy	Marked
	Lens Capsule	Cataract	Marked
Note: ATROPHY TGLs = 4-13			
Note: CATARACT TGLs = 4-13			
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 2-8			
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Neoplastic Nodule	
Note: NEOPLASTIC NOD TGLs = 1-5			
Mammary Gland		Fibroadenoma	
Nose	Sinus	Fungus	Mild
	Sinus	Inflammation	Acute, Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 5-3			
Thymus		Thymoma Benign	
Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 3-3			
Uterus	Endometrium	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28799

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28799

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28800

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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
Larynx	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 3-8			
Liver	Bile Duct	Cytologic Alterations	
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
[Angiectasis TGLS = 5-3]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28801

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28801

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	Larynx
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Kidney	Pelvis	Mineralization	Minimal
Note: NEPHROPATHY TGLs = 4-8		Nephropathy	Minimal
Liver		Cytologic Alterations	Multiple
Lung	Interstitialium	Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 6-6		Inflammation	Chronic, Minimal
Note: INFLAMMATION TGLs = 5-6			
Pancreas	Artery	Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 7-3			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28802

TRT#: 6

SEX: Female

DAY ON TEST: 686

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
Lymph Node	Axillary	Hyperplasia	Lymphoid, Moderate
Note: HYPERPLASIA TGLs = 2-15			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-15			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28803

TRT#: 6

SEX: Female

DAY ON TEST: 700

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28803

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 - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Lung	Interstitialium	Inflammation	Chronic, Minimal
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 1,2-15			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
Spleen		Fibrosis	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28804

TRT#: 6

SEX: Female

DAY ON TEST: 719

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28804

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	Larynx
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Kidney	Pelvis	Mineralization	Minimal
Note: NEPHROPATHY TGLs = 4-8		Nephropathy	Minimal
Liver	Centrilobular	Leukemia Mononuclear	
Note: VACUOLIZ CYTO TGLs = 2-5		Vacuolization Cytoplasmic	Moderate
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6,7			
Lymph Node	Mandibular	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 6-13	Mediastinal	Hemorrhage	Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Note: LEUKEMIA MONUC TGLs = 1-5		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

Animal Note: VAGINA-PHYSIOLOGIC CHANGES.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28805

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28805

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	Larynx
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Kidney	Renal Tubule	Adenoma	
	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: ADENOMA TGLs = 2-8			
Liver		Hepatodiaphragmatic Nodule	
Note: HDN TGLs = 1-5			
Lymph Node	Mandibular	Cyst	Mild
Pancreas	Acinus	Atrophy	Focal, Mild
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28807

TRT#: 6

SEX: Female

DAY ON TEST: 706

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart	Atrium	Leukemia Mononuclear Thrombosis	Moderate
Note: THROMBUS TGLs = 7-4 Note: LEUKEMIA MONUC TGLs = 8-4			
Kidney	Pelvis	Mineralization Nephropathy Pigmentation	Minimal Minimal Mild
Note: NEPHROPATHY TGLs = 4-8			
Liver	Bile Duct	Hyperplasia Hyperplasia Leukemia Mononuclear Thrombosis	Mild Focal, Marked Moderate
Note: LEUKEMIA MONUC TGLs = 5-5			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-6,7			
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas	Acinus	Atrophy Leukemia Mononuclear	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
Note: CYST TGLs = 10-3			
Skin	Subcut Tiss	Abscess	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28807

TRT#: 6

SEX: Female

DAY ON TEST: 706

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28807

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ABSCESS TGLs = 1-13

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2,3-5

Stomach

Glandular

Erosion

Minimal

Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

Animal Note: PROCESSOR MALFUNCTION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28809

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Esophagus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 2-8			
Liver	Bile Duct	Cytologic Alterations	Multiple
		Hyperplasia	Mild
Note: LIVER-LESION PROBABLY ATTRIBUTABLE TO CONGESTION-NO DX.			
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 3-15			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 6-16			
Ovary		Cyst	Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 4-3			
Skin	Subcut Tiss	Lipoma	
Note: LIPOMA TGLs = 5-13			
Tooth		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28809

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28809

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: PROCESSOR MALFUNCTION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28810

TRT#: 6

SEX: Female

DAY ON TEST: 671

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 1-15			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-12			
Liver	Centrilobular	Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Mild
Note: VACUOLIZ CYTO TGLs = 3-11			
Note: HDN TGLs = 6-15			
Pharynx	Palate	Inflammation	Acute, Mild
Stomach	Forestomach	Ulcer	Marked
Note: ULCER TGLs = 2-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 5-15			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28811

TRT#: 6

SEX: Female

DAY ON TEST: 638

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28811

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	Lung
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Kidney	Pelvis	Mineralization	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Fibroadenoma	
Mammary Gland			
Note: FIBROADENOMA TGLs = 1-15			
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-15			
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28812

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Larynx
Ovary
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Kidney

Note: NEPHROPATHY TGLs = 3-8
Liver

Pelvis

Cardiomyopathy
Mineralization
Nephropathy

Mild
Mild
Minimal

Note: CYTOLOGC ALTER TGLs = 1-5
Note: ANGIECTASIS TGLs = 2-5
Mammary Gland

Angiectasis
Cytologic Alterations

Mild
Multiple

Note: FIBROADENOMA TGLs = 4-14
Note: HYPERPLASIA TGLs = 5-15

Fibroadenoma
Hyperplasia

Mild

Mesentery
Note: NECROSIS TGLs = 9-16

Fat

Necrosis

Mild

Pancreas
Pituitary Gland
Note: CYST TGLs = 7-3

Acinus
Pars Distalis

Atrophy
Cyst

Focal, Mild
Minimal

Uterus
Note: POLYP STROMAL TGLs = 8-13

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

Animal Note: PROCESSOR MALFUNCTION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28812

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28812

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28813

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Brain		Glioma Benign	
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
		Pigmentation	Minimal
Note: NEPHROPATHY TGLs = 5-8			
Liver		Cytologic Alterations	Multiple
Note: CYTOLOGC ALTER TGLs = 3-5			
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 7-6,7			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 6-3			
Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: PROCESSOR MALFUNCTION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28814

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28814

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	Larynx
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 5-8		
Liver		Angiectasis	Mild
		Cytologic Alterations	Multiple
		Hyperplasia	Minimal
Note: ANGIECTASIS	TGLs = 3-5		
Note: CYTOLOGC ALTER	TGLs = 2-5		
Lung	Interstitium	Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mesenteric	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 6-13		
[Hemorrhage TGLS = 4-9]			
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
[Cyst TGLS = 7-3]			
Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 1-3		
Uterus		Fibrosis	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: PROCESSOR MALFUNCTION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28815

TRT#: 6

SEX: Female

DAY ON TEST: 719

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lung	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Inflammation	Acute, Moderate
		Nephropathy	Minimal
Note: INFLAMMATION TGLs = 5-8			
Liver	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-5			
Lymph Node	Lymphocyte, Mandibular	Necrosis	Mild
	Lymphocyte, Mediastinal	Necrosis	Mild
Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA TGLs = 1-13			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-5			
Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 4-3			

PRIMARY CAUSE OF DEATH

-

Animal Note: PROCESSOR MALFUNCTION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28816

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Larynx	Lymph Node - Mesenteric	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Amyloid Deposition	Moderate
	Medulla	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 3-8		
Liver		Cytologic Alterations	Multiple
Note: CYTOLOGC ALTER	TGLs = 4-5		
Lung		Infiltration Cellular	Histiocyte, Minimal
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC	TGLs = 2-13		
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28817

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28817

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	Larynx	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 3-8		
Liver		Cytologic Alterations	Multiple
Note: CYTOLOGC ALTER	TGLs = 1-5		
Mesentery		Hyperplasia	Lymphoid, Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Nervosa	Ectopic Tissue	
Note: ANGIECTASIS	TGLs = 6-3		
Thymus		Cyst	Moderate
Thyroid Gland	C Cell	Adenoma	
Note: ADENOMA	TGLs = 5-4		

PRIMARY CAUSE OF DEATH

-

Animal Note: PROCESSOR MALFUNCTION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28818

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28818

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	Larynx	Lung
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 3-8			
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-5			
Lymph Node	Mandibular	Hemorrhage	Minimal
	Mediastinal	Hemorrhage	Minimal
[Hemorrhage TGLS = 4-13]			
[Hemorrhage TGLS = 6-2]			
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 1-14			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-3]			
Spleen		Leukemia Mononuclear	
Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: PROCESSOR MALFUNCTION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28821

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28821

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	Larynx	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Inflammation	Acute, Mild
	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 2-8		
Liver		Cytologic Alterations	Multiple
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
Note: HDN	TGLs = 1-5		
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 3-6		
Pancreas	Acinus	Atrophy	Focal, Mild
	Artery	Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 4-10		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28823

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28823

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	Larynx	Lung
Mammary Gland	Nose	Ovary	Parathyroid Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 2-8			
Liver		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
Note: LIVER-ARTIFACTUAL HEMORRHAGE IS PRESENT			
Lymph Node	Mesenteric	Hemorrhage	Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-3			
Salivary Glands		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28824

TRT#: 6

SEX: Female

DAY ON TEST: 672

DOSE: 25000PPMFEMALE

DISP: Dead

HISTO: 28824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
	Myocardium	Necrosis	Mild
Kidney		Nephropathy	Minimal
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-12		
Stomach	Forestomach	Ulcer	Mild
Note: ULCER	TGLs = 2-15		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28825

TRT#: 6

SEX: Female

DAY ON TEST: 722

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Larynx
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Medulla	Hyperplasia	Minimal
Bone Marrow		Fibrosis	Mild
Note: FIBROSIS	TGLs = 1-12		
Heart	Atrium	Thrombosis	Moderate
Note: THROMBUS	TGLs = 6-4		
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 5-8		
Liver	Centrilobular	Necrosis	Moderate
		Pigmentation	Mild
Note: PIGMENT	TGLs = 3-5		
Note: NECROSIS	TGLs = 2-5		
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 8-13		
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 4-3		
Thyroid Gland	C Cell	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 7-3		

PRIMARY CAUSE OF DEATH

-

Animal Note: PROCESSOR MALFUNCTION

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28827

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28827

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	Larynx
Liver	Lung	Lymph Node - Mesenteric	Nose
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Kidney	Pelvis	Mineralization	Minimal
Note: NEPHROPATHY TGLs = 2-8		Nephropathy	Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-9,13			
Ovary		Cyst	Moderate
Note: CYST TGLs = 3-10			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 5-3			
Thyroid Gland	C Cell	Carcinoma	
Uterus		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 4-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28829

TRT#: 6

SEX: Female

DAY ON TEST: 719

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28829

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	Larynx	Lung
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 3-8			
Liver	Centrilobular	Vacuolization Cytoplasmic	Moderate
Note: VACUOLIZ CYTO TGLs = 2-5			
Lymph Node	Mandibular	Hemorrhage	Minimal
Nose	Nasolacrim Dct	Inflammation	Acute, Moderate
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 5-3			
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Ulcer	Mild
	Glandular	Ulcer	Mild
Note: ULCER TGLs = 1-9			
Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28830

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Larynx	Lung	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 8-8			
Liver		Hepatodiaphragmatic Nodule	
Note: HDN TGLs = 3-5	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 6-15			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1,2-13,14			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 9-3			
Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 5-3			
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 4-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28831

TRT#: 6

SEX: Female

DAY ON TEST: 700

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Heart	Atrium	Thrombosis	Mild
Kidney		Leukemia Mononuclear	
	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: LEUKEMIA MONUC TGLs = 3-12			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-11			
Lung		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 4-1			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-15			
Stomach	Forestomach	Ulcer	Minimal
	Glandular	Ulcer	Mild
Note: ULCER TGLs = 5-15			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28832

TRT#: 6

SEX: Female

DAY ON TEST: 681

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28832

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 - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-11		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-4		
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Infarct	Marked
Note: INFARCT	TGLs = 1-1		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-12		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28833

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28833

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	Larynx
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Kidney	Pelvis	Mineralization	Minimal
Note: NEPHROPATHY TGLs = 3-8		Nephropathy	Minimal
Liver		Cytologic Alterations	Multiple
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-13			
Ovary		Granulosa Cell Tumor Benign	
Note: GRANLSA TM BGN TGLs = 5-10			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 8-3			
Spleen		Leukemia Mononuclear	
Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
Note: HYPERPLASIA TGLs = 6-10			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28834

TRT#: 6

SEX: Female

DAY ON TEST: 664

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Pancreas
Skin
Thyroid Gland

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Trachea

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Ovary
Salivary Glands
Stomach - Glandular
Uterus

MISSING

Thymus

OBSERVATIONS

Kidney Nephropathy Minimal
Mammary Gland Fibroadenoma
Note: FIBROADENOMA TGLs = 1-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28835

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Larynx	Lung	Lymph Node - Mesenteric
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland		Inflammation	Acute, Mild
Note: INFLAMMATION	TGLs = 1-10		
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 4-8		
Liver		Cytologic Alterations	Multiple
		Inflammation	Chronic, Minimal
Note: CYTOLOGC ALTER	TGLs = 3-5		
Lymph Node	Axillary	Hemorrhage	Mild
	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 5-14		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-13		
Pancreas	Artery	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: HYPERPLASIA	TGLs = 6-3		
Spleen		Fibrosis	Focal, Mild
Note: FIBROSIS	TGLs = 7-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28837

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 1-8		
Liver		Cytologic Alterations	Multiple
Note: CYTOLOGC ALTER	TGLs = 2,3-5		
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 5,6-6,7		
Ovary		Cyst	Mild
Note: CYST	TGLs = 4-10		
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28838

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28838

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	Larynx	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 4-8		
Liver		Angiectasis	Mild
		Inflammation	Chronic, Minimal
Note: ANGIECTASIS	TGLs = 3-5		
Lung	Interstitial	Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	[Hemorrhage TGLS = 6-15]		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-13		
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 5-3		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28839

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Larynx	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 5-8			
Liver		Angiectasis	Mild
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Minimal
Note: HDN TGLs = 4-5			
Note: ANGIECTASIS TGLs = 3-5			
Note: VACUOLIZ CYTO TGLs = 2-5			
Lung		Hyperplasia	Adenomatous, Mild
Mammary Gland		Adenoma	
Note: ADENOMA TGLs = 1-13			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28840

TRT#: 6

SEX: Female

DAY ON TEST: 351

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

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

OBSERVATIONS

Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 1-15			
Pancreas	Acinus	Atrophy	Focal, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-15			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28841

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28841

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	Larynx	Lung
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Eye	Retina	Atrophy	Moderate
	Lens Capsule	Cataract	Moderate
Note: CATARACT	TGLs = 1-13		
Note: ATROPHY	TGLs = 1-13		
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 5-8		
Liver		Cytologic Alterations	Multiple
		Inflammation	Chronic, Mild
Note: CYTOLOGC ALTER	TGLs = 4-5		
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 7-14		
Mammary Gland		Adenoma	
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 6-3		
Spleen		Inflammation	Granulomatous, Focal, Moderate
Note: INFLAMMATION	TGLs = 2,3-5		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28842

TRT#: 6

SEX: Female

DAY ON TEST: 638

DOSE: 25000PPMFEMALE

DISP: Moribund

HISTO: 28842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Kidney
Lung
Mammary Gland
Note: FIBROADENOMA TGLs = 1-15
Pancreas

Cortex
Pelvis
Interstitialium
Acinus

Necrosis
Mineralization
Inflammation
Fibroadenoma
Atrophy

Focal, Mild
Mild
Chronic, Minimal
Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28843

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28843

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	Larynx	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Inflammation	Acute, Minimal
		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 3-8		
Liver		Cytologic Alterations	
		Hyperplasia	Minimal
Note: CYTOLOGIC ALTER	TGLs = 1-5		
Pituitary Gland	Pars Distalis	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28844

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Larynx	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland		Adenoma	
		Inflammation	Acute, Mild
Note: ADENOMA	TGLs = 4-10		
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 3-8		
Liver		Cytologic Alterations	Multiple
		Hepatodiaphragmatic Nodule	
Note: HDN	TGLs = 1-5		
Note: CYTOLOGIC ALTER	TGLs = 2-5		
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 5-6,7		
Lymph Node		Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 6-13		
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland		Cyst	Multiple

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28845

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28845

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	Larynx	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 4-8			
Liver		Cytologic Alterations	Multiple
		Inflammation	Chronic, Minimal
Note: FOCI OF CYTOLOGIC ALTERATION.			
Note: LIVER-THE RED AREA IS CONGESTION ADJACENT TO ONE OF THE			
Note: CYTOLOGC ALTER TGLs = 1,3-5,13			
Lung	Interstitialium	Inflammation	Chronic, Minimal
Note: INFLAMMATION TGLs = 5-6,7			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-3			
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28846

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28846

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	Larynx	Lung
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY	TGLs = 1-8		
Liver		Cytologic Alterations	Multiple
Note: CYTOLOGC ALTER	TGLs = 3,4-5		
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mesenteric	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 5-15		
Note: HEMORRHAGE	TGLs = 7-13		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-13		
Pancreas	Acinus	Atrophy	Focal, Minimal
		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 6-3		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt
CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28847

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28847

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 - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Larynx	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Clitoral Gland		Hyperplasia	Mild
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Minimal
Note: NEPHROPATHY TGLs = 3-8			
Liver		Cytologic Alterations	Multiple
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
Note: CYTOLOGC ALTER TGLs = 2-5			
Note: HDN TGLs = 1-5			
Lung	Interstitium	Inflammation	Chronic, Minimal
Lymph Node	Mandibular	Hemorrhage	Minimal
	Mediastinal	Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 6-13			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-3			
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 4-14			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28848

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Ovary	Salivary Glands
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
		Adenoma	
Clitoral Gland			
Note: ADENOMA	TGLs = 1-10		
Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Mild
		Nephropathy	Minimal
		Pigmentation	Mild
Note: NEPHROPATHY	TGLs = 4-8		
Liver		Cytologic Alterations	Multiple
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Note: CYTOLOGC ALTER	TGLs = 2-5		
Lymph Node	Axillary	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA	TGLs = 7-13		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 6-13		
Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28848

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28848

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS TGLs = 8-3

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-5

Stomach

Epithelium, Forestomach

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28849

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28849

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	Larynx	Lymph Node - Mesenteric
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 4-8		
Liver		Angiectasis	Minimal
		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Focal, Mild
		Inflammation	Chronic, Minimal
Note: ANGIECTASIS	TGLs = 2-5		
Note: HYPERPLASIA	TGLs = 3-13		
Lung	Interstitial	Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 5-15		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-14		
Nose	Turbinates	Inflammation	Chronic, Minimal
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 6-3		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05706-02

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4,4'-Diamino-2,2'-stilbenedisulfonic acid, disodium salt

CAS Number: 7336-20-1

Date Report Requested: 10/19/2014

Time Report Requested: 00:34:40

First Dose M/F: NA / NA

Lab: IRDC

ANIMAL ID: 28850

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 25000PPMFEMALE

DISP: Terminal Sacrifice

HISTO: 28850

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	Larynx	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Mineralization	Minimal
		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 4-8			
Liver		Angiectasis	Mild
		Cytologic Alterations	Multiple
	Bile Duct	Hyperplasia	Minimal
Note: ANGIECTASIS TGLs = 2-5			
Note: CYTOLOGIC ALTER TGLs = 1-5			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-3			

PRIMARY CAUSE OF DEATH

-

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE